

BLACKFAST 181 WORKING SOLUTION (25%)

Page: 1

Compilation date: 01/08/2011

Revision No: 2

# Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

### Product name: BLACKFAST 181 WORKING SOLUTION (25%)

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Chemical preparation for blacking of iron and steel

## 1.3. Details of the supplier of the safety data sheet

Company name:	Blackfast Chemicals Limited
	78 Coombe Road
	New Malden
	Surrey
	KT3 4QS
	United Kingdom
Tel:	+44 (0) 20 8336 2900
Fax:	+44 (0) 20 8336 0909
Email:	sales@blackfast.com
	-

## 1.4. Emergency telephone number

**Emergency tel:** +44 (0) 7985 975545

## Section 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification under CHIP:	Xi: R36/38; Sens.: R43; Xn: R48/20; -: R52/53
Most important adverse effects:	Irritating to eyes and skin. May cause sensitisation by skin contact. Harmful: danger of
	serious damage to health by prolonged exposure through inhalation. Harmful to aquatic
	organisms, may cause long-term adverse effects in the aquatic environment.

### 2.2. Label elements

Label elements under CHIP:

Hazard symbols: Harmful.



Risk phrases: R36/38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# BLACKFAST 181 WORKING SOLUTION (25%)

## Safety phrases: S24: Avoid contact with skin.

## S37: Wear suitable gloves.

## 2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

## Section 3: Composition/information on ingredients

# 3.2. Mixtures

## COPPER SULPHATE

7758-98-7	Xn: R22; Xi: R36/38; N: R50/53	-	<2%
HATE			
7786-81-4	T: R49; Xn: R68; T: R61; T: R48/23; Xn: R20/22; Xi: R38; Sens.: R42/43; N: R50/53	-	<2%
	IATE	IATE 7786-81-4 Xn: R20/22; Xi: R38; Sens.: R42/43;	IATE 7786-81-4 T: R49; Xn: R68; T: R61; T: R48/23; Xn: R20/22; Xi: R38; Sens.: R42/43;

### POTASSIUM BIFLUORIDE

232-156-2 7789-29-9 T: R25; C: R34 -		-	<2%	
SELENIUM COMPOUNDS EXCEPT CADMIUM SULPHOSELENIDE				
-	-	T: R23/25; Xn: R33; N: R50/53	-	<2%

## Section 4: First aid measures

4.1. Description of 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.		
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.		
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so.		
4.2. Most important symptoms and effects, both acute and delayed			
Skin contact:	There may be mild irritation at the site of contact.		
Eye contact:	Eye contact: There may be irritation and redness.		
Ingestion:	There may be vomiting and diarrhoea.		
Inhalation:	Exposure may cause coughing or wheezing.		
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.		
4.3. Indication of any immediate medical attention and special treatment needed			

Immediate / special treatment: Eye bathing equipment should be available on the premises.

# Section 5: Fire-fighting measures

Page: 2

#### BLACKFAST 181 WORKING SOLUTION (25%)

### 5.1. Extinguishing media

Extinguishing media: Water fog. Water spray.

### 5.2. Special hazards arising from the substance or mixture

#### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear protective clothing to prevent contact with skin and eyes.

#### Section 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

# 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

## 6.3. Methods and material for containment and cleaning up

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.

#### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct

sunlight.

### 7.3. Specific end use(s)

Specific end use(s): No data available.

## Section 8: Exposure controls/personal protection

## 8.1. Control parameters

Hazardous ingredients:

#### **COPPER SULPHATE**

### Workplace exposure limits:

#### **Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1 mg/m3	2 mg/m3	-	-

# BLACKFAST 181 WORKING SOLUTION (25%)

# Page: 4

POTASSIUM BIFLUORIDE				
UK 2.5 mg/m3				
8.2. Exposure controls				
Engineering measures:	Ensure there is sufficient ventilation of the area.			
Respiratory protection:	Respiratory protection not required.			
Hand protection:	PVC gloves.			
Eye protection:	Safety goggles.			
Skin protection:	Plastic apron.			
Section 9: Physical and chem	cal properties			
9.1. Information on basic phys	ical and chemical properties			
State:	Liquid			
Colour:	Blue			
Odour:	Barely perceptible odour			
Solubility in water:	Soluble			
Boiling point/range°C:	100Relative density: 1.04			
pH:	3			
9.2. Other information				
Other information: Not applicable.				
Section 10: Stability and react	ivity			
10.1. Reactivity				
Reactivity:	Stable under recommended transport or storage conditions.			
10.2. Chemical stability				
Chemical stability:	Stable under normal conditions.			
10.3. Possibility of hazardous	reactions			
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions.			
	Decomposition may occur on exposure to conditions or materials listed below.			
10.4. Conditions to avoid				
Conditions to avoid:	Sources of ignition.			
10.5. Incompatible materials				
10.6. Hazardous decompositio	n products			
Haz. decomp. products:	In combustion emits toxic fumes of carbon dioxide.			
Section 11: Toxicological info	rmation			

## BLACKFAST 181 WORKING SOLUTION (25%)

# 11.1. Information on toxicological effects

## **Toxicity values:**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	7907	mg/kg
DERMAL	RBT	LD50	141913	mg/kg
DUST/MIST	RAT	4H LC50	0.1823	mg/l

#### **Relevant effects for mixture:**

Effect	Route	Basis
Irritation	OPT DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated
Repeated dose toxicity	INH	Hazardous: calculated

### Symptoms / routes of exposure

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

Eye contact: There may be irritation and redness.

**Ingestion:** There may be vomiting and diarrhoea.

Inhalation: Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

# Section 12: Ecological information

## 12.1. Toxicity

#### **Ecotoxicity values:**

Species	Test	Value	Units
FISH	96H LC50	56.691	mg/l

#### 12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Soluble in water.

# 12.5. Results of PBT and vPvB assessment

**PBT identification:** This substance is not identified as a PBT substance.

12.6. Other adverse effects

#### Section 13: Disposal considerations

# BLACKFAST 181 WORKING SOLUTION (25%)

		Page:	6
13.1. Waste treatment methods	3		
Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal company.		
Waste code number:			
NB:	The user's attention is drawn to the possible existence of regional or national regulations		
	regarding disposal.		
Section 14: Transport information			
	This product does not require a classification for transport.		
Section 15: Regulatory information			
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture		
15.2. Chemical Safety Assessm	nent		
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture by		
-	the supplier.		
Section 16: Other information			
Other information			
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No		
	453/2010.		
	* indicates text in the SDS which has changed since the last revision.		
Phrases used in s.2 and 3:	R20/22: Harmful by inhalation and if swallowed.		
	R22: Harmful if swallowed.		
	R23/25: Toxic by inhalation and if swallowed.		
	R25: Toxic if swallowed.		
	R33: Danger of cumulative effects.		
	R34: Causes burns.		
	R36/38: Irritating to eyes and skin.		
	R38: Irritating to skin.		
	R42/43: May cause sensitisation by inhalation and skin contact.		
	R43: May cause sensitisation by skin contact.		
	R48/20: Harmful: danger of serious damage to health by prolonged exposure through		
	inhalation.		
	R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation	1.	
	R49: May cause cancer by inhalation.		
	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic		
	environment.		
	R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic		
	environment.		
	R61: May cause harm to the unborn child.		
	R68: Possible risk of irreversible effects.		

BLACKFAST 181 WORKING SOLUTION (25%)

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.

Page: 7