

BLACKFAST 181 WORKING SOLUTION (25%)

Page: 1

Compilation date: 10/01/12

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Revision No: 6

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: PC14: Metal surface treatment products, including galvanic and electroplating products.

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC13: Treatment of articles by dipping and pouring ERC5: Industrial use resulting in inclusion into or onto a matrix USES ADVISED AGAINST: PROC7: Industrial spraying

PROC11: Non industrial spraying

1.3. Details of the supplier of the safety data sheet

Company name: Blackfast Chemicals Ltd.

Unit 5 Russell House

Molesey Road

Walton-on-Thames

Surrey KT12 3PE

UK

Tel: +44 (0)208 339 7370
Fax: +44 (0)208 339 7371
Email: sales@blackfast.com

1.4. Emergency telephone number

Emergency tel: +44(0)1865 407333

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: STOT RE 2: H373; Aquatic Chronic 2: H411; Carc. 1Ai: H350i; Eye Irrit. 2: H319; Repr. 1B:

H360D; Skin Irrit. 2: H315; Skin Sens. 1: H317; -: EUH208; Met. Corr. 1: H290

Most important adverse effects: Contains nickel sulphate. May produce an allergic reaction. Causes skin irritation. May cause

an allergic skin reaction. Causes serious eye irritation. May cause cancer by inhalation. May

damage the unborn child. May cause damage to organs Respiratory tract only through

prolonged or repeated exposure [inhalation (dust/mist)]. Toxic to aquatic life with long lasting

effects. May be corrosive to metals.

BLACKFAST 181 WORKING SOLUTION (25%)

Page: 2

2.2. Label elements

Label elements:

Hazard statements: EUH208: Contains nickel sulphate. May produce an allergic reaction.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H350i: May cause cancer by inhalation. H360D: May damage the unborn child.

H373: May cause damage to organs Respiratory tract only through prolonged or repeated

exposure [inhalation (dust/mist)].

H411: Toxic to aquatic life with long lasting effects.

H290: May be corrosive to metals.

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard GHS09: Environmental







Signal words: Danger

Precautionary statements: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/mist/spray.

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of water/.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P308+313: IF exposed or concerned: Get medical advice.

P314: Get medical attention if you feel unwell.

P321: Specific treatment (see instructions on this label).

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

BLACKFAST 181 WORKING SOLUTION (25%)

Page: 3

NICKEL SULPHATE - REACH registered number(s): 01-2119439361-44-XXXX

232-104-9 7786-81-4 - Muta. 2: H341; Repr. 1B: H	·							
RE 1: H372: Carc. 1A: H38	50: Carc. 1Ai:							
RE 1: H372; Carc. 1A: H350; Carc. 1Ai:								
H350i								
COPPER SULPHATE - REACH registered number(s): 01-2119520556-40-XXXX								
231-847-6 7758-98-7 - Acute Tox. 4: H302; Eye Ir	rrit. 2: H319; <5%							
Skin Irrit. 2: H315; Aquatic Chronic 1:								
H410; Aquatic Acute 1: H4	100							
SELENIUM DIOXIDE - REACH registered number(s): 01-2120089867-33-XXXX								
231-194-7 7446-08-4 - Acute Tox. 3: H301+331; S	STOT RE 2: <5%							

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. Wash

immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Wash out mouth with water. Give 1 cup of water to drink every 10

H373; Aquatic Acute 1: H400; Aquatic

Chronic 1: H410

minutes. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

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

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. It is unlikely that this substance

will be swallowed due to its physical properties.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be

available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool

containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

BLACKFAST 181 WORKING SOLUTION (25%)

Page: 4

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. 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: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn

leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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.

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: Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

Avoid the formation or spread of dust in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Polyethylene.

7.3. Specific end use(s)

Specific end use(s): PC14: Metal surface treatment products, including galvanic and electroplating products.

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		2mg/m3	0.2mg/m3	-

BLACKFAST 181 WORKING SOLUTION (25%)

Page: 5

SELENIUM DIOXIDE

	UK	0.1mg/m3	_	-	-
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DNEL/PNEC Values

Hazardous ingredients:

NICKEL SULPHATE

Туре	Exposure	Value	Population	Effect
DNEL	Inhalation	0.05mg/m3	Workers	Systemic
DNEL	Inhalation	0.05mg/m3	Workers	Local
DNEL	Dermal	0.00044mg/cm2	Workers	Local
DNEL	Inhalation	20ng/m3	General Population	Systemic
DNEL	Inhalation	20ng/m3	General Population	Local
DNEL	Oral	0.022mg/kg	General Population	Systemic

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves. Nitrile gloves. Breakthrough time of the glove material > 8 hours.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Acid-resistant protective clothing. Boots. Apron.

Environmental: Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Blue

Odour: Barely perceptible odour

Evaporation rate: No data available.

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Viscosity: No data available.

Boiling point/range°C: 100 Melting point/range°C: No data available.

Flammability limits %: lower: No data available. upper: No data available.

Flash point°C: No data available. Part.coeff. n-octanol/water: No data available.

Autoflammability°C: No data available. Vapour pressure: No data available.

Relative density: 1.04 pH: 3

VOC g/I: Not applicable.

BLACKFAST 181 WORKING SOLUTION (25%)

Page: 6

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

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: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

NICKEL SULPHATE

	ORAL	RAT	LD50	264	mg/kg
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COPPER SULPHATE

ORAL	HMN	LDLO	11	mg/kg
ORAL	RAT	LD50	482	mg/kg

SELENIUM DIOXIDE

ORAL	RAT	LD50	68.1	ma/ka
OIVAL	1011	LDOO	00.1	1119/119

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

BLACKFAST 181 WORKING SOLUTION (25%)

Page: 7

Respiratory/skin sensitisation	DRM	Hazardous: calculated
Carcinogenicity		Hazardous: calculated
Reproductive toxicity		Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure

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

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. It is unlikely that this substance

will be swallowed due to its physical properties.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: No data available.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

NICKEL SULPHATE

ALGAE	72H ErC50	6.03	mg/l
ALGAE	96H LC50	18.4	mg/l
DAPHNIA	48H EC50	2.72	mg/l
FISH	96H LC50	14.7	mg/l

COPPER SULPHATE

ALGAE	48H EC50	0.1	mg/l
Daphnia magna	48H EC50	2.44	mg/l
Daphnia magna	96H LC50	0.1	mg/l
FISH	96H LC50	810	μg/l

SELENIUM DIOXIDE

ALGAE	72H ErC50	0.9	mg/l
DAPHNIA	48H EC50	4.8	mg/l
FISH	96H LC50	7.46	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

BLACKFAST 181 WORKING SOLUTION (25%)

Page: 8

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 11 01 98

Disposal of packaging: Not applicable.

NB: The user's attention is drawn to the possible existence of regional or national regulations

regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3264

14.2. UN proper shipping name

Shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(ORTHOPHOSPHORIC ACID < 0.5%)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: |||

14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

BLACKFAST 181 WORKING SOLUTION (25%)

Page: 9

15.2. Chemical Safety Assessment

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

2015/830.

Phrases used in s.2 and s.3: EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.

H290: May be corrosive to metals.

H301+331: Toxic if swallowed or if inhaled.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H350i: May cause cancer by inhalation.

H360D: May damage the unborn child.

H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

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.