

## **1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY**

PRODUCT NAME: BLACKFAST 181 BLACKING SOLUTION  
APPLICATION: Blacking of iron and steel at room temperature  
COMPANY: Pixel-Plus  
ADDRESS: Ty Mawr, Bryncroes, Pwllheli, Gwynedd LL53 8EH, England  
TEL/FAX NO'S: 01758-730356  
EMAIL: Safety@pixel-plus.co.uk

## **2. COMPOSITION / INFORMATION ON INGREDIENTS**

COMPOSITION: Aqueous solution of inorganic/organic salts.  
HAZARDOUS INGREDIENTS: Selenium Compound <1% as Se  
Copper Compound <1% Cu  
Nickel Compound <1% Ni  
SYMBOL: Xn  
RISK PHRASES: R 20/22, R 33, R 36/38  
EEC NO: 36/38 231 -957-4

## **3. HAZARDS IDENTIFICATION**

Harmful

## **4. FIRST AID MEASURES**

INHALATION: Remove to fresh air. Seek medical aid  
INGESTION: Gargle, rinse mouth and drink plenty of water. Do not induce vomiting. Seek medical aid  
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.

## **5. FIRE FIGHTING MEASURES**

Non flammable. Will not support combustion.  
Decomposition products: Oxides of Carbon, Phosphorus, Selenium, Chlorine and Chlorine Oxides.

## **6. ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS: When dealing with a spill note the recommendations in Section 7.  
ENVIRONMENTAL: Prevent entry into drains, sewers and water courses  
SPILLAGE: Absorb liquid in absorbent clay granules.

## **7. HANDLING AND STORAGE**

Avoid inhaling the vapour. Avoid contact with skin and eyes. Store in clean, dry conditions. Keep container closed and ensure label intact and legible. Prevent from freezing.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Maximum Exposure Limits: Nickel Compound 8 hr TWA  $0.1 \text{ mgm}^{-3}$  (EH 40/94)  
Occupational Exposure Limits: Selenium Compound (as Se) 8 hr TWA  $0.1 \text{ mgm}^{-3}$  (EH 40/94). Cover when not in use. Local exhaust ventilation is recommended when in continuous use. Personal protection: Wear impervious (PVC) gloves, eye protection and plastic apron. Remove contaminated clothing immediately.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Blue liquid  
SPECIFIC GRAVITY: 1.18 @ 20°C  
SOLUBILITY/MISCIBILITY IN WATER: Complete  
FLASH POINT: N/A  
DEGRADATION: Can occur above 50°C  
pH: 3.5 - 4.0

#### **10. STABILITY AND REACTIVITY**

Solution is stable under normal conditions. Avoid temperatures above 40°C and below 5°C. Irritant gases may be released above 50°C. Avoid sources of ignition.

#### **11. TOXICOLOGICAL INFORMATION**

The following toxicological information is based on the toxicity of the products principal hazardous component - Selenium Compound. Local contact may cause irritation of the skin and mucous membranes. Inhalation may cause coughing. Ingestion may cause vomiting and diarrhoea.

#### **12. ECOLOGICAL INFORMATION**

Not assessed.

#### **13. DISPOSAL INFORMATION**

Disposal must be in accordance with local and national legislation. Dispose through an authorised waste contractor to a licensed site.

#### **14. TRANSPORT INFORMATION**

No special precautions are necessary.

#### **15. REGULATORY INFORMATION**

HAZARDOUS INGREDIENTS: Selenium, Copper and Nickel Compounds

SYMBOL: Xn

RISK PHRASES: Harmful by inhalation and if swallowed. Danger of cumulative effects. Irritating to eyes and skin.

SAFETY PHRASES: When using, do not eat, drink or smoke. After contact with skin, wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice (show the label where possible).

STATUTORY INSTRUMENTS: Health and Safety at Work Act 1974. Chemicals (Hazard Information and Packaging) Regs 1993 (Si 1746). Control of Substances Hazardous to Health Regs 1988 (Si 1657). Environmental Protection Act 1990.

CODES OF PRACTICE: Classification and labelling substances dangerous for supply (COP 22). Waste management: The duty of care.

GUIDANCE NOTES: Occupational exposure limits (EH 40). Classification, Packaging and Labelling of Dangerous Substances Regs. 1984 HS(R)22.

#### **16. OTHER INFORMATION**

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## **1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY**

PRODUCT NAME: BLACKFAST 551 CONDITIONER

APPLICATION: Surface preparation of iron and steel

COMPANY: Pixel-Plus

ADDRESS: Ty Mawr, Bryn croes, Pwllheli, Gwynedd LL53 8EH, England

TEL/FAX NO'S: 01758-730356

EMAIL: [Safety@pixel-plus.co.uk](mailto:Safety@pixel-plus.co.uk)

## **2. COMPOSITION / INFORMATION ON INGREDIENTS**

COMPOSITION: Aqueous solution of inorganic/organic salts.

HAZARDS INGREDIENTS: None

SYMBOL: Xi

RISK PHRASES: None

## **3. HAZARDS IDENTIFICATION**

Irritant

## **4. FIRST AID MEASURES**

INHALATION: Remove to fresh air.

INGESTION: Gargle, rinse mouth and drink large amounts of water. Seek immediate medical aid.

SKIN: Remove contaminated clothing. Wash well with plenty of water. If irritation develops, seek medical aid.

EYES: Flush with clean water immediately for 10 minutes. Seek medical aid.

## **5. FIRE FIGHTING MEASURES**

Non flammable. Will not support combustion.

Decomposition products: Oxides of Carbon, Phosphorus, Nitrogen.

## **6. ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS:: When dealing with a spill note the recommendations in Section 7.

ENVIRONMENTAL: Prevent entry into drains, sewers and water courses.

SPILLAGE: Absorb liquid in absorbent clay granules.

## **7. HANDLING AND STORAGE**

Avoid inhaling the vapour. Avoid contact with skin and eyes. Store in clean, dry conditions. Keep container closed and ensure label intact and legible. Prevent from freezing.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Occupational Exposure Limits: None.

Cover working solution when not in use. Local exhaust ventilation is recommended when in continuous use.

Personal protection: Wear impervious (PVC) gloves, eye protection and plastic apron. Remove contaminated clothing immediately.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Colourless liquid

SPECIFIC GRAVITY: 1.10 @ 20°C

SOLUBILITY/MISCIBILITY IN WATER: Complete

FLASH POINT: N/A

pH: 2.5 - 3.0

## **10. STABILITY AND REACTIVITY**

Solution is stable under normal conditions.

## **11. TOXICOLOGICAL INFORMATION**

May cause irritation to skin and eyes.

## **12. ECOLOGICAL INFORMATION**

Not assessed.

### **13. DISPOSAL INFORMATION**

Disposal must be in accordance with local and national legislation. Dispose through an authorised waste contractor to a licensed site.

### **14. TRANSPORT INFORMATION**

No special precautions are necessary.

### **15. REGULATORY INFORMATION**

HAZARDOUS INGREDIENTS: None

SYMBOL (not obligatory): Xi

RISK PHRASES (not obligatory): Irritating to eyes.

SAFETY PHRASES (not obligatory): In case of contact with eyes, rinse immediately with Plenty of water and seek medical advice.

STATUTORY INSTRUMENTS:

Health and Safety at Work Act 1974. Chemicals (Hazard Information and Packaging) Regs 1993 (Si 1746).

Control of Substances Hazardous to Health Regs 1988 (Si 1657). Environmental Protection Act 1990.

CODES OF PRACTICE:

Classification and labelling substances dangerous for supply (COP 22). Waste management: The duty of care.

GUIDANCE NOTES:

Occupational exposure limits (EH 40). Classification, Packaging and Labelling of Dangerous Substances Regs. 1984 HS(R)22.

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## **IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

PRODUCT NAME: BLACKFAST 716 ALKALINE DEGREASER

APPLICATION: Degreasing of iron and steel at room temperature

COMPANY: Pixel-Plus

ADDRESS: Ty Mawr, Bryncroes, Pwllheli, Gwynedd LL53 8EH, England

TEL/FAX NO'S: 01758-730356

EMAIL: Safety@pixel-plus.co.uk

### **1. COMPOSITION / INFORMATION ON INGREDIENTS**

COMPOSITION: Water based mixture of inorganic salts/surfactants.

HAZARDOUS INGREDIENTS: Sodium Hydroxide 0.5 - 2%

SYMBOL: Xi

RISK PHRASES: R 36/38

EEC NO: 215-185-5

### **2. HAZARDS IDENTIFICATION**

Irritant

### **3. FIRST AID MEASURES**

INHALATION: Remove to fresh air.

INGESTION: Gargle, rinse mouth and drink large amounts of water. Seek medical aid.

SKIN: Remove contaminated clothing. Wash well with plenty of water. If irritation develops, seek medical aid

EYES: Flush with plenty of water for 10 minutes. Seek medical aid.

### **4. FIRE FIGHTING MEASURES**

Non flammable. Will not support combustion.

Decomposition products: Oxides of Carbon.

### **5. ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS: When dealing with a spill note the recommendations in Section 7.

ENVIRONMENTAL: Prevent entry into drains, sewers and water courses.

SPILLAGE: Absorb liquid in absorbent clay granules.

### **6. HANDLING AND STORAGE**

Avoid inhaling the vapour. Avoid contact with skin and eyes. Store in clean, dry conditions. Keep container closed and ensure label intact and legible. Prevent from freezing.

### **7. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Occupational Exposure Limits:

NaOH (pure) 15 min ref. period 2 mgm-3 (EH40/94)

Cover when not in use. Local exhaust ventilation is recommended when in continuous use.

Personal protection: Wear impervious (PVC) gloves, eye protection and plastic apron.

Remove contaminated clothing immediately.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Colourless liquid

SPECIFIC GRAVITY: 1.10 @ 200C

SOLUBILITY/MISCIBILITY IN WATER: Complete

FLASH POINT:N/A

pH: 12

### **8. STABILITY AND REACTIVITY**

Solution is stable under normal conditions. Avoid sources of ignition.

#### **11. TOXICOLOGICAL INFORMATION**

Defatting of the skin occurs on contact, which leads to irritation and dryness.

### **9. ECOLOGICAL INFORMATION**

Not assessed.

### **10. DISPOSAL INFORMATION**

Disposal must be in accordance with local and national legislation. Dispose through an authorised waste contractor to a licensed site.

### **11. TRANSPORT INFORMATION**

No special precautions are necessary.

### **12. REGULATORY INFORMATION**

HAZARDOUS INGREDIENTS: Sodium Hydroxide

SYMBOL: Xi

RISK PHRASES: Irritating to eyes and skin.

SAFETY PHRASES: In case of contact with eyes, rinse immediately with plenty of water and seek medical aid. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

STATUTORY INSTRUMENTS: Health and Safety at Work Act 1974. Chemicals (Hazard Information and Packaging) Regs 1993 (Si 1746). Control of Substances Hazardous to Health Regs 1988 (Si 1657). Environmental Protection Act 1990.

CODES OF PRACTICE: Classification and labelling substances dangerous for supply (COP 22). Waste management: The duty of care.

GUIDANCE NOTES: Occupational exposure limits (EH 40). Classification, Packaging and Labelling of Dangerous Substances Regs. 1984 HS(R)22.

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## **1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY**

PRODUCT NAME: BLACKFAST 833 DEWATERING OIL

APPLICATION: Rust preventative and water displacement

COMPANY: Pixel-Plus

ADDRESS: Ty Mawr, Bryn croes, Pwllheli, Gwynedd LL53 8EH, England

TEL/FAX NO'S: 01758-730356

EMAIL: Safety@pixel-plus.co.uk

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

COMPOSITION: Hydrocarbon Solvent, Mineral Oil, Corrosion Preventatives and Additives.

HAZARDOUS INGREDIENTS: White Spirit (CAS 64742 – 887)

Diacetone Alcohol (CAS 123 - 42 - 2)

SYMBOL: F Xn

RISK PHRASES: R10, 36, 65

## **3. HAZARDS IDENTIFICATION**

Flammable

## **4. FIRST AID MEASURES**

INHALATION: Remove from exposure, rest and keep warm. Seek medical aid

INGESTION: DO NOT induce vomiting. Wash mouth with water or milk. Give milk to drink. Beware of aspiration if vomiting occurs. If aspiration (inhalation of liquid into the lungs) is suspected or occurs, get immediate medical help.

SKIN: Remove contaminated clothing. Wash well with soap and plenty of water. If irritation develops, seek medical aid. Seek medical aid

EYES: Flush with clean water immediately for 5 minutes. Seek medical aid.

## **5. FIRE FIGHTING MEASURES**

Flash Point: 400C min

Extinguishing Media: CO2, dry powder, foam or water fog - DO NOT USE WATER JET

Decomposition products: Oxides of Carbon, Barium and Sulphur.

## **6. ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS: Immediately issue NO SMOKING and NO NAKED FLAMES warnings.

Isolate electrical ignition sources. Spilt product presents a significant slip hazard.

ENVIRONMENTAL: Prevent entry into drains, sewers and water courses

SPILLAGE: Absorb liquid in absorbent clay granules.

## **7. HANDLING AND STORAGE**

Avoid inhaling the vapour and contact with skin and eyes. Avoid sources of ignition. Store in clean, dry conditions in temperatures 5 – 300C.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Occupational exposure limited: White Spirit 8 hr TWA 100 ppm, 10 min ref-period 125 ppm (EH 40/94).

Local exhaust ventilation is recommended. All equipment must be electrically grounded. Use flameproof equipment and isolate all potential sources of ignition.

Personal protection: Wear impervious (PVC) gloves, eye protection and plastic apron. Remove contaminated clothing immediately.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear brown liquid

BOILING POINT: 1450C

FLASH POINT: 400C min

AUTOFLAMMABILITY: above 2000C

EXPLOSIVE PROPERTIES: 0.6 - 7.0% by volume

SPECIFIC GRAVITY: 0.80 - 0.83

SOLUBILITY/MISCIBILITY IN WATER: Insoluble/not miscible

## **10. STABILITY AND REACTIVITY**

Stable at normal temperatures. Flash point 400C min. Keep away from sources of ignition and maintain temperature range 5 - 300C. Avoid strong oxidising agents.

## **11. TOXICOLOGICAL INFORMATION (health effects)**

EYES: Causes irritation. Vapour may cause irritation.

SKIN: Defats the skin. May cause irritation.

INHALATION: Mist and vapours may cause irritation to nose and respiratory tract. Vapours may cause headaches, dizziness and central nervous system depression.

INGESTION: May cause nausea, vomiting and diarrhoea. Aspiration of liquid during ingestion or vomiting may cause severe chemical pneumonitis.

CHRONIC: Repeated and prolonged skin contact may lead to skin disorders. Long term vapour inhalation can cause kidney damage.

OTHER: None known.

## **12. ECOLOGICAL INFORMATION**

Environmental assessment: May cause significant ecological damage in aquatic systems and must be used and disposed of in accordance with the recommendations made in this safety data sheet.

Mobility: Volatile mobile liquid. Contains volatile organic compounds. Insoluble in water.

Persistence and Degradability: Inherently biodegradable, but not readily.

Volatile organic compounds undergo photochemical degradation in the atmosphere.

Bioaccumulative potential: Bioaccumulative, however with short retention period of the order of one week or less.

Ecotoxicity: Moderately ecotoxic to marine organisms.

## **13. DISPOSAL INFORMATION**

Disposal must be in accordance with local and national legislation. Dispose through an authorised waste contractor to a licensed site.

## **14. TRANSPORT INFORMATION**

UN/SI NUMBER: 1300

IMO: Class 3.3 Packing Group III. Marine pollutant – yes.

IATA/ICAO: Class 3. Packing Group III

ADR: Class 3 Item 31(c)

TRANSPORT NAME: White Spirit Mixture.

HAZCHEM/KEMLER CODE: 3 [YJ] /30 Issue No: 01 (833)

## **15. REGULATORY INFORMATION**

HAZARDOUS INGREDIENTS: White Spirit

SI NUMBER: 1268

SYMBOL: F Xn

RISK PHRASES: Flammable. Irritating to eyes. Harmful: may cause lung damage if swallowed.

SAFETY PHRASES:

Keep away from sources of ignition. NO SMOKING. Avoid contact with skin. In case of fire use CO2/dry powder/foam – NEVER use water. If swallowed, seek medical advice immediately and show this container or label. May cause lung damage DO NOT induce vomiting.

STATUTORY INSTRUMENTS:

Health and Safety at Work Act 1974. Chemicals (Hazard Information and Packaging) Regs 1993 (SI 1746). Control of Substances Hazardous to Health Regs 1988 (SI 1657). Environmental Protection Act 1990. Road Traffic (Carriage of Dangerous Substances in Packages etc). Regs 1992 (SI 742).

CODES OF PRACTICE:

Classification and labelling substances dangerous for supply (COP 22). Waste management: The duty of care. Packaging and labelling of dangerous substances for conveyance by road (COP 40; Rev 2)

GUIDANCE NOTES:

Occupational exposure limits (EH 40). Classification, Packaging and Labelling of Dangerous Substances Regs. 1984 HS(R)22. Occupational skin diseases, health and safety precautions (EH 26) Storage of flammable liquids in containers [HS(G)51] Dermatitis - cautionary notice [SHW 367] Save your skin I - occupational contact Dermatitis [MS(b)6]

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