

# POLYPRINT

## MATERIAL SAFETY DATA SHEET

Product: Polyprint Aquaspond  
Language: English  
Issue Date: 01/07/2008  
Rev Date: 09/11/2004

### 1. Identification of the Substance / Preparation and Company

DESCRIPTION: See Product Name Above  
COMPANY ADDRESS: Health and Safety Department,  
Unit 2, 215-223 Castlereagh Road, Belfast, BT5 5FH United Kingdom.  
Telephone: +44 (0) 28 90 460018 Fax: +44 (0) 28 90 790083  
Email: polyprint@btinternet.com  
EMERGENCY TELEPHONE NUMBER:  
FOR ADVICE ON MEDICAL EMERGENCIES, FIRE, SPILLAGE & CHEMICAL HAZARDS  
+44 (0) 1865 407333 [INFORMATION AVAILABLE ONLY IN ENGLISH]

### 2. Hazards Identification

May evolve small amounts of iso-butane

Flammable atmosphere may develop in sealed containers

### 3. Composition / Information on Ingredients

DESCRIPTION: Dispersion of organic pigment in aqueous media containing dispersing agents and humectants.

PIGMENT CLASS: Mixture

HAZARDOUS COMPONENTS	%	CLASS	R-PHRASE	STEL(15min)	LTEL TWA(8h)
Ammonia	<1	Xi	R36/37/38	8 mg/m <sup>3</sup> [25ppm]	25 mg/m <sup>3</sup> [35pp]
Ethane-1, 2-diol	<1	Xn	R22	125mg/m <sup>3</sup>	60mg/m <sup>3</sup>

### 4. First-aid Measures

EYE CONTACT: Immediately rinse with clean water for at least 15 mins and obtain medical attention

SKIN CONTACT: Wash with soap and water

INGESTION: Wash out mouth with water. Give water to drink. Do not induce vomiting.

If a large amount has been ingested, seek medical attention

INHALATION: Remove subject to fresh air

### 5. Fire-fighting Measures

EXTINGUISHING MEDIA: Water Spray, Foam, Dry Powder, Carbon Dioxide

EXPOSURE HAZARDS: None

PROTECTIVE EQUIPMENT: No special measures required

### 6. Accidental Release Measures

ENVIRONMENTAL

PRECAUTIONS: Inform relevant authorities if a major spillage occurs or if the substance has entered a water course or sewer or contaminated soil or vegetation

CLEANING PROCEDURES: Mix with sand or vermiculite

CLEANING PROCEDURES: Transfer to a suitable container

CLEANING PROCEDURES: Wash the spillage site with large amounts of water

PERSONAL PRECAUTIONS: Refer to section 8 of SDS for personal protection details

## 7. Handling and Storage

HANDLING: Utilise recommended protective clothing and equipment.

Follow proper standards of industrial hygiene

Avoid contact with the skin and eyes.

Provide adequate ventilation during handling and processing, especially in confined spaces or where large amounts are being processed

Use non-sparking tools

Smoking is forbidden

Earth any equipment used in handling

STORAGE:

Ensure lighting and electrical equipment are not a source of ignition

Avoid incompatible materials and conditions - see section 10 of SDS

Store in cool, well ventilated area

## 8. Exposure Controls / Personal Protection

ENGINEERING MEASURES: Ensure there is mechanical ventilation of the area

RESPIRATORY PROTECTION: Respirator in the absence of local exhaust ventilation

HAND PROTECTION: Impervious gloves

EYE PROTECTION: Safety Goggles

SKIN PROTECTION: Overalls, rubber boots

## 9. Physical and Chemical Properties

PHYSICAL STATE: Paste

COLOUR: Colourless

ODOUR: Odourless

pH: 8 - 10

BOILING POINT: ~ 100 oC

FLAMMABILITY: Not Available

AUTOFLAMMABILITY: Not Available

EXPLOSIVE PROPERTIES: Not Available

OXIDISING PROPERTIES: Non-oxidising (by EC Criteria)

VAPOUR PRESSURE: Not Available

RELATIVE DENSITY: Not Available

WATER SOLUBILITY: Miscible

FAT SOLUBILITY: Not Available

PARTITION COEFFICIENT

(n-octanol/water): Not Available

VISCOSITY: Not Available

OTHER DATA: Not Available

## 10. Stability and Reactivity

CONDITIONS TO AVOID: Keep away from sources of ignition

Avoid the build up of flammable vapours

MATERIALS TO AVOID: None Known

STABILITY: Stable under normal conditions

HAZARDOUS DECOMPOSITION PRODUCTS:

In combustion emits toxic fumes of nitrogen oxides

In combustion emits toxic fumes of carbon dioxide and carbon monoxide

## 11. Toxicological Information

GENERAL: This information has been determined by consideration of the data for this and analogous products

ACUTE EFFECTS:

EYE CONTACT No more than slightly irritating to the eyes

SKIN CONTACT No more than slightly irritating to the skin

INGESTION Harmful if swallowed

INHALATION Unlikely to be harmful or irritating on inhalation  
LONG TERM EFFECTS  
SKIN  
SENSITISATION: None Known  
CARCINOGENICITY  
None Known  
MUTAGENICTY None Known  
REPRODUCTIVE  
EFFECTS: Reproductive toxicity data not available

## 12. Ecological Information

GENERAL: Avoid contamination of rivers and soil  
DEGRADABILITY - BOD: Not determined [BIOCHEMICAL OXYGEN DEMAND - 5 DAY]  
DEGRADABILITY - COD: Not determined [CHEMICAL OXYGEN DEMAND]  
ECOTOXICITY: No specific data available  
ACCUMULATION: Not Available  
MOBILITY: Not Available

## 13. Disposal Considerations

WASTE DISPOSAL: Dispose of in accordance with local regulations. Do not discharge concentrated product into water courses or public sewers without pre- treatment

## 14. Transport Information

GENERAL: Not classified as dangerous for transport

## 15. Regulatory Information

The regulatory information given only indicates the principal regulations specifically applicable to the product described in the safety data sheet.

SI 2002/1689 The Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 [UK]  
1999/ 45/EC & amendments  
1991/155/EEC & amendments  
1967/548/EEC & amendments

NOT CLASSIFIED AS DANGEROUS PREPARATION [1999/45/EC]

CLASSIFICATION: No Single Hazard

RISK PHRASES: None

EINECS: All components are listed in the European Inventory of Existing Commercial Chemical Substances

## 16. Other Information

RECOMMENDED USES: -

RESTRICTIONS FOR USE: -

DISCLAIMER: This product should be stored, handled and used in accordance with good industrial hygiene practice and in conformity with any legal requirements.

The information contained herein is accurate to the best of our knowledge and belief and is intended to describe our products from the point of view of health and safety requirements. It is not therefore to be construed as guaranteeing specific properties

DISCLAIMER: This company shall not be held liable for any damage resulting from handling or from contact with the above product

AMENDMENTS: | indicates amendments

# POLYPRINT

## MATERIAL SAFETY DATA SHEET

Product: Polyprint Pigment Concentrates: Black Kp; Green 2kp; Green Bp; Violet 3rp; Violet 4bp  
Language: English  
Issue Date: 01/07/2008  
Rev Date: 09/11/2004

### 1. Identification of the Substance / Preparation and Company

DESCRIPTION: See Product Name Above  
COMPANY ADDRESS: Health and Safety Department,  
Unit 2, 215-223 Castlereagh Road, Belfast, BT5 5FH United Kingdom.  
Telephone: +44 (0) 28 90 460018 Fax: +44 (0) 28 90 790083  
Email: polyprint@btinternet.com  
EMERGENCY TELEPHONE NUMBER:  
FOR ADVICE ON MEDICAL EMERGENCIES, FIRE, SPILLAGE & CHEMICAL HAZARDS  
+44 (0) 1865 407333 [INFORMATION AVAILABLE ONLY IN ENGLISH]

### 2. Hazards Identification

No significant hazards

### 3. Composition / Information on Ingredients

DESCRIPTION: Dispersion of organic pigment in aqueous media containing dispersing agents and humectants.

PIGMENT CLASS: Mixture

HAZARDOUS COMPONENTS	%	CLASS	R-PHRASE	STEL(15min)	LTEL TWA(8h)
Ammonia	<1	Xi	R36/37/38	8 mg/m3 [25ppm]	25 mg/m3 [35pp]
Propane-1, 2-diol	<5	-	-	-	474 mg/m3 [150ppm]

### 4. First-aid Measures

EYE CONTACT: Immediately rinse with clean water for at least 15 mins and obtain medical attention

SKIN CONTACT: Wash with soap and water

INGESTION: Wash out mouth with water. Give water to drink. Do not induce vomiting.

If a large amount has been ingested, seek medical attention

INHALATION: Remove subject to fresh air

### 5. Fire-fighting Measures

EXTINGUISHING MEDIA: Water Spray, Foam, Dry Powder, Carbon Dioxide

EXPOSURE HAZARDS: None

PROTECTIVE EQUIPMENT: No special measures required

### 6. Accidental Release Measures

ENVIRONMENTAL

PRECAUTIONS: Inform relevant authorities if a major spillage occurs or if the substance has entered a water course or sewer or contaminated soil or vegetation

CLEANING PROCEDURES: Mix with sand or vermiculite

CLEANING PROCEDURES: Transfer to a suitable container

CLEANING PROCEDURES: Wash the spillage site with large amounts of water

PERSONAL PRECAUTIONS: Refer to section 8 of SDS for personal protection details

## 7. Handling and Storage

**HANDLING:** Utilise recommended protective clothing and equipment.

Follow proper standards of industrial hygiene

Avoid contact with the skin and eyes.

Provide adequate ventilation during handling and processing, especially in confined spaces or where large amounts are being processed

Use non-sparking tools

Smoking is forbidden

Earth any equipment used in handling

**STORAGE:**

Ensure lighting and electrical equipment are not a source of ignition

Avoid incompatible materials and conditions - see section 10 of SDS

Store in cool, well ventilated area

## 8. Exposure Controls / Personal Protection

**ENGINEERING MEASURES:** Ensure there is mechanical ventilation of the area

**RESPIRATORY PROTECTION:** Respirator in the absence of local exhaust ventilation

**HAND PROTECTION:** Impervious gloves

**EYE PROTECTION:** Safety Goggles

**SKIN PROTECTION:** Overalls, rubber boots

## 9. Physical and Chemical Properties

**PHYSICAL STATE:** Liquid

**COLOUR:** Various

**ODOUR:** Odourless

**pH:** 8 - 10

**BOILING POINT:** ~ 100 oC

**FLAMMABILITY:** Not Available

**AUTOFLAMMABILITY:** Not Available

**EXPLOSIVE PROPERTIES:** Not Available

**OXIDISING PROPERTIES:** Non-oxidising (by EC Criteria)

**VAPOUR PRESSURE:** Not Available

**RELATIVE DENSITY:** Not Available

**WATER SOLUBILITY:** Miscible

**FAT SOLUBILITY:** Not Available

**PARTITION COEFFICIENT**

(n-octanol/water): Not Available

**VISCOSITY:** Not Available

**OTHER DATA:** Not Available

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Keep away from sources of ignition

Avoid the build up of flammable vapours

**MATERIALS TO AVOID:** None Known

**STABILITY:** Stable under normal conditions

**HAZARDOUS DECOMPOSITION PRODUCTS:**

In combustion emits toxic fumes of nitrogen oxides

In combustion emits toxic fumes of carbon dioxide and carbon monoxide

## 11. Toxicological Information

**GENERAL:** This information has been determined by consideration of the data for this and analogous products

**ACUTE EFFECTS:**

**EYE CONTACT** No more than slightly irritating to the eyes

**SKIN CONTACT** No more than slightly irritating to the skin

**INGESTION** Harmful if swallowed

**INHALATION** Unlikely to be harmful or irritating on inhalation

#### LONG TERM EFFECTS

SKIN

SENSITISATION: None Known

CARCINOGENICITY

None Known

MUTAGENICTY None Known

REPRODUCTIVE

EFFECTS: Reproductive toxicity data not available

## 12. Ecological Information

GENERAL: Avoid contamination of rivers and soil

DEGRADABILITY - BOD: Not determined [BIOCHEMICAL OXYGEN DEMAND - 5 DAY]

DEGRADABILITY - COD: Not determined [CHEMICAL OXYGEN DEMAND]

ECOTOXICITY: No specific data available

ACCUMULATION: Not Available

MOBILITY: Not Available

## 13. Disposal Considerations

WASTE DISPOSAL: Dispose of in accordance with local regulations. Do not discharge concentrated product into water courses or public sewers without pre-treatment

## 14. Transport Information

GENERAL: Not classified as dangerous for transport

## 15. Regulatory Information

The regulatory information given only indicates the principal regulations specifically applicable to the product described in the safety data sheet.

SI 2002/1689 The Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 [UK]

1999/ 45/EC & amendments

1991/155/EEC & amendments

1967/548/EEC & amendments

NOT CLASSIFIED AS DANGEROUS PREPARATION [1999/45/EC]

CLASSIFICATION: No Single Hazard

RISK PHRASES: None

EINECS: All components are listed in the European Inventory of Existing Commercial Chemical Substances

## 16. Other Information

RECOMMENDED USES: -

RESTRICTIONS FOR USE: -

DISCLAIMER: This product should be stored, handled and used in accordance with good industrial hygiene practice and in conformity with any legal requirements.

The information contained herein is accurate to the best of our knowledge and belief and is intended to describe our products from the point of view of health and safety requirements. It is not therefore to be construed as guaranteeing specific properties

DISCLAIMER: This company shall not be held liable for any damage resulting from handling or from contact with the above product

AMENDMENTS: | indicates amendments

# POLYPRINT

## MATERIAL SAFETY DATA SHEET

Product: Polyprint Binder AQ & Polyprint Metallic Binder

Language: English

Issue Date: 01/07/2008

Rev Date: 09/11/2004

### 1. Identification of the Substance / Preparation and Company

DESCRIPTION: See Product Name Above

COMPANY ADDRESS: Health and Safety Department,  
Unit 2, 215-223 Castlereagh Road, Belfast, BT5 5FH United Kingdom.

Telephone: +44 (0) 28 90 460018 Fax: +44 (0) 28 90 790083

Email: polyprint@btinternet.com

EMERGENCY TELEPHONE NUMBER:

FOR ADVICE ON MEDICAL EMERGENCIES, FIRE, SPILLAGE & CHEMICAL HAZARDS

+44 (0) 1865 407333 [INFORMATION AVAILABLE ONLY IN ENGLISH]

### 2. Hazards Identification

No significant hazards

### 3. Composition / Information on Ingredients

DESCRIPTION:

HAZARDOUS COMPONENTS	%	CLASS	R-PHRASE	STEL(15min)	LTEL TWA(8h)
2, 2' Oxydiethanol	<15	Xi	R36/37/38	101 mg/m3 [23ppm]	-
Free Ammonia	<0.5	Xi	R36/37/38	25 mg/m3 [35ppm]	18 mg/m3 [25pp]

### 4. First-aid Measures

EYE CONTACT: Immediately rinse with clean water for at least 15 mins  
and obtain medical attention

SKIN CONTACT: Wash with soap and water

INGESTION: Wash out mouth with water. Give water to drink. Do not induce vomiting.

If a large amount has been ingested, seek medical attention

INHALATION: Remove subject to fresh air

### 5. Fire-fighting Measures

EXTINGUISHING MEDIA: Water Spray, Foam, Dry Powder, Carbon Dioxide

EXPOSURE HAZARDS: None

PROTECTIVE EQUIPMENT: No special measures required

### 6. Accidental Release Measures

ENVIRONMENTAL

PRECAUTIONS: Inform relevant authorities if a major spillage occurs or if the substance has entered a  
water course or sewer or contaminated soil or vegetation

CLEANING PROCEDURES: Mix with sand or vermiculite

CLEANING PROCEDURES: Transfer to a suitable container

CLEANING PROCEDURES: Wash the spillage site with large amounts of water

PERSONAL PRECAUTIONS: Refer to section 8 of SDS for personal protection details

### 7. Handling and Storage

**HANDLING:** Utilise recommended protective clothing and equipment.  
Follow proper standards of industrial hygiene  
Avoid contact with the skin and eyes.  
Provide adequate ventilation during handling and processing,  
especially in confined spaces or where large amounts are being processed  
Use non-sparking tools  
Smoking is forbidden  
Earth any equipment used in handling  
**STORAGE:**  
Ensure lighting and electrical equipment are not a source of ignition  
Avoid incompatible materials and conditions - see section 10 of SDS  
Store in cool, well ventilated area

## 8. Exposure Controls / Personal Protection

**ENGINEERING MEASURES:** Ensure there is mechanical ventilation of the area  
**RESPIRATORY PROTECTION:** Respirator in the absence of local exhaust ventilation  
**HAND PROTECTION:** Impervious gloves  
**EYE PROTECTION:** Safety Goggles  
**SKIN PROTECTION:** Overalls, rubber boots

## 9. Physical and Chemical Properties

**PHYSICAL STATE:** Liquid  
**COLOUR:** Various  
**ODOUR:** Odourless  
**pH:** 8 - 10  
**BOILING POINT:** ~ 100 oC  
**FLAMMABILITY:** Not Available  
**AUTOFLAMMABILITY:** Not Available  
**EXPLOSIVE PROPERTIES:** Not Available  
**OXIDISING PROPERTIES:** Non-oxidising (by EC Criteria)  
**VAPOUR PRESSURE:** Not Available  
**RELATIVE DENSITY:** Not Available  
**WATER SOLUBLILITY:** Miscible  
**FAT SOLUBLILITY:** Not Available  
**PARTITION COEFFICIENT**  
(n-octanol/water): Not Available  
**VISCOSITY:** Not Available  
**OTHER DATA:** Not Available

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Keep away from sources of ignition  
Avoid the build up of flammable vapours  
**MATERIALS TO AVOID:** None Known  
**STABILITY:** Stable under normal conditions  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
In combustion emits toxic fumes of nitrogen oxides  
In combustion emits toxic fumes of carbon dioxide and carbon monoxide

## 11. Toxicological Information

**GENERAL:** This information has been determined by consideration of  
the data for this and analagous products  
**ACUTE EFFECTS:**  
**EYE CONTACT** No more than slightly irritating to the eyes  
**SKIN CONTACT** No more than slightly irritating to the skin  
**INGESTION** Harmful if swallowed  
**INHALATION** Unlikely to be harmful or irritating on inhalation  
**LONG TERM EFFECTS**  
**SKIN**  
**SENSITISATION:** None Known  
**CARCINOGENICITY**



None Known  
MUTAGENICTY None Known  
REPRODUCTIVE  
EFFECTS: Reproductive toxicity data not available

## 12. Ecological Information

GENERAL: Avoid contamination of rivers and soil  
DEGRADABILITY - BOD: Not determined [BIOCHEMICAL OXYGEN DEMAND - 5 DAY]  
DEGRADABILITY - COD: Not determined [CHEMICAL OXYGEN DEMAND]  
ECOTOXICITY: No specific data available  
ACCUMULATION: Not Available  
MOBILITY: Not Available

## 13. Disposal Considerations

WASTE DISPOSAL: Dispose of in accordance with local regulations. Do not discharge concentrated product into water courses or public sewers without pre- treatment

## 14. Transport Information

GENERAL: Not classified as dangerous for transport

## 15. Regulatory Information

The regulatory information given only indicates the principal regulations specifically applicable to the product described in the safety data sheet.

SI 2002/1689 The Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 [UK]  
1999/ 45/EC & amendments  
1991/155/EEC & amendments  
1967/548/EEC & amendments

NOT CLASSIFIED AS DANGEROUS PREPARATION [1999/45/EC]

CLASSIFICATION: No Single Hazard

RISK PHRASES: None

EINECS: All components are listed in the European Inventory of Existing Commercial Chemical Substances

## 16. Other Information

RECOMMENDED USES: -

RESTRICTIONS FOR USE: -

DISCLAIMER: This product should be stored, handled and used in accordance with good industrial hygiene practice and in conformity with any legal requirements.

The information contained herein is accurate to the best of our knowledge and belief and is intended to describe our products from the point of view of health and safety requirements. It is not therefore to be construed as guaranteeing specific properties

DISCLAIMER: This company shall not be held liable for any damage resulting from handling or from contact with the above product

AMENDMENTS: | indicates amendments

# POLYPRINT

## MATERIAL SAFETY DATA SHEET

Product: Polyprint Aquapearl Silver & Polyprint Aquapearl Gold

Language: English

Issue Date: 01/07/2008

Rev Date: 09/11/2004

### 1. Identification of the Substance / Preparation and Company

DESCRIPTION: See Product Name Above

COMPANY ADDRESS: Health and Safety Department,  
Unit 2, 215-223 Castlereagh Road, Belfast, BT5 5FH United Kingdom.

Telephone: +44 (0) 28 90 460018 Fax: +44 (0) 28 90 790083

Email: polyprint@btinternet.com

EMERGENCY TELEPHONE NUMBER:

FOR ADVICE ON MEDICAL EMERGENCIES, FIRE, SPILLAGE & CHEMICAL HAZARDS

+44 (0) 1865 407333 [INFORMATION AVAILABLE ONLY IN ENGLISH]

### 2. Hazards Identification

No significant hazards

### 3. Composition / Information on Ingredients

DESCRIPTION: Dispersion of organic pigment in aqueous media containing dispersing agents and humectants.

PIGMENT CLASS: Inorganic

### 4. First-aid Measures

EYE CONTACT: Immediately rinse with clean water for at least 15 mins  
and obtain medical attention

SKIN CONTACT: Wash with soap and water

INGESTION: Wash out mouth with water. Give water to drink. Do not induce vomiting.

If a large amount has been ingested, seek medical attention

INHALATION: Remove subject to fresh air

### 5. Fire-fighting Measures

EXTINGUISHING MEDIA: Water Spray, Foam, Dry Powder, Carbon Dioxide

EXPOSURE HAZARDS: None

PROTECTIVE EQUIPMENT: No special measures required

### 6. Accidental Release Measures

ENVIRONMENTAL

PRECAUTIONS: Inform relevant authorities if a major spillage occurs or if the substance has entered a water course or sewer or contaminated soil or vegetation

CLEANING PROCEDURES: Mix with sand or vermiculite

CLEANING PROCEDURES: Transfer to a suitable container

CLEANING PROCEDURES: Wash the spillage site with large amounts of water

PERSONAL PRECAUTIONS: Refer to section 8 of SDS for personal protection details

### 7. Handling and Storage

HANDLING: Utilise recommended protective clothing and equipment.

Follow proper standards of industrial hygiene

Avoid contact with the skin and eyes.  
Provide adequate ventilation during handling and processing,  
especially in confined spaces or where large amounts are being processed  
Use non-sparking tools  
Smoking is forbidden  
Earth any equipment used in handling  
STORAGE:  
Ensure lighting and electrical equipment are not a source of ignition  
Avoid incompatible materials and conditions - see section 10 of SDS  
Store in cool, well ventilated area

## 8. Exposure Controls / Personal Protection

ENGINEERING MEASURES: Ensure there is mechanical ventilation of the area  
RESPIRATORY PROTECTION: Respirator in the absence of local exhaust ventilation  
HAND PROTECTION: Impervious gloves  
EYE PROTECTION: Safety Goggles  
SKIN PROTECTION: Overalls, rubber boots

## 9. Physical and Chemical Properties

PHYSICAL STATE: Liquid  
COLOUR: Various  
ODOUR: Odourless  
pH: 8 - 10  
BOILING POINT: ~ 100 °C  
FLAMMABILITY: Not Available  
AUTOFLAMMABILITY: Not Available  
EXPLOSIVE PROPERTIES: Not Available  
OXIDISING PROPERTIES: Non-oxidising (by EC Criteria)  
VAPOUR PRESSURE: Not Available  
RELATIVE DENSITY: Not Available  
WATER SOLUBILITY: Miscible  
FAT SOLUBILITY: Not Available  
PARTITION COEFFICIENT  
(n-octanol/water): Not Available  
VISCOSITY: Not Available  
OTHER DATA: Not Available

## 10. Stability and Reactivity

CONDITIONS TO AVOID: Keep away from sources of ignition  
Avoid the build up of flammable vapours  
MATERIALS TO AVOID: None Known  
STABILITY: Stable under normal conditions  
HAZARDOUS DECOMPOSITION PRODUCTS:  
In combustion emits toxic fumes of nitrogen oxides  
In combustion emits toxic fumes of carbon dioxide and carbon monoxide

## 11. Toxicological Information

GENERAL: This information has been determined by consideration of  
the data for this and analogous products  
ACUTE EFFECTS:  
EYE CONTACT No more than slightly irritating to the eyes  
SKIN CONTACT No more than slightly irritating to the skin  
INGESTION Harmful if swallowed  
INHALATION Unlikely to be harmful or irritating on inhalation  
LONG TERM EFFECTS  
SKIN  
SENSITISATION: None Known  
CARCINOGENICITY  
None Known  
MUTAGENICITY None Known

REPRODUCTIVE

EFFECTS: Reproductive toxicity data not available

## 12. Ecological Information

GENERAL: Avoid contamination of rivers and soil

DEGRADABILITY - BOD: Not determined [BIOCHEMICAL OXYGEN DEMAND - 5 DAY]

DEGRADABILITY - COD: Not determined [CHEMICAL OXYGEN DEMAND]

ECOTOXICITY: No specific data available

ACCUMULATION: Not Available

MOBILITY: Not Available

## 13. Disposal Considerations

WASTE DISPOSAL: Dispose of in accordance with local regulations. Do not discharge concentrated product into water courses or public sewers without pre- treatment

## 14. Transport Information

GENERAL: Not classified as dangerous for transport

## 15. Regulatory Information

The regulatory information given only indicates the principal regulations specifically applicable to the product described in the safety data sheet.

SI 2002/1689 The Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 [UK]

1999/ 45/EC & amendments

1991/155/EEC & amendments

1967/548/EEC & amendments

NOT CLASSIFIED AS DANGEROUS PREPARATION [1999/45/EC]

CLASSIFICATION: No Single Hazard

RISK PHRASES: None

EINECS: All components are listed in the European Inventory of Existing Commercial Chemical Substances

## 16. Other Information

RECOMMENDED USES: -

RESTRICTIONS FOR USE: -

DISCLAIMER: This product should be stored, handled and used in accordance with good industrial hygiene practice and in conformity with any legal requirements.

The information contained herein is accurate to the best of our knowledge and belief and is intended to describe our products from the point of view of health and safety requirements. It is not therefore to be construed as guaranteeing specific properties

DISCLAIMER: This company shall not be held liable for any damage resulting from handling or from contact with the above product

AMENDMENTS: | indicates amendments

**Polyprint**

**Material Safety Data Sheet according to 1907/2006/EC, Article 31**

Printing date 10.03.2008 Revision: 17.10.2007

· **Product details**

· **Trade name:** Silver & Gold Effect Powders - Non hazardous

· **SDS number:** 8075

· **Application of the substance / the preparation** Pigment

· **Manufacturer/Supplier:**

Unit 2, 215-223 Castlereagh Road, Belfast, BT5 5FH United Kingdom.

Telephone: +44 (0) 28 90 460018 Fax: +44 (0) 28 90 790083

Email: polyprint@btinternet.com

· **Information in case of emergency:** Telephone: + 44 (0) 1254 874799 (Available 24 hrs)

· **Hazard description:** Not applicable.

· **Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:** Void

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Generally the product does not irritate the skin.

Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Protective equipment:** No special measures required.

· **Person-related safety precautions:** Not required.

· **Measures for environmental protection:** No special measures required.

· **Measures for cleaning/collecting:** Pick up mechanically.

(Contd. on page 2)

**Safety Data Sheet**

**according to 1907/2006/EC, Article 31**

Printing date 10.03.2008 Revision: 17.10.2007

**Trade name: Flake Bronze Powders - Non hazardous**

(Contd. of page 1)

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· **Additional information:** No dangerous substances are released.

· **Handling:**

· **Information for safe handling:**

No special measures required.

Keep receptacles tightly sealed.

· **Information about fire - and explosion protection:** No special measures required.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

**7440-50-8 copper**

OES Short-term value: 2\*\* mg/m<sub>3</sub>

Long-term value: 0.2\* 1\*\* mg/m<sub>3</sub>

\*fume \*\*dusts and mists

**7429-90-5 aluminium**

OES Long-term value: 10\* 4\*\* mg/m<sub>3</sub>

\*total inhalable dust \*\*respirable dust

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**

Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality

and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the

resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

- **General Information**

**Form:** Solid

(Contd. on page 3)

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**Safety Data Sheet**

**according to 1907/2006/EC, Article 31**

Printing date 10.03.2008 Revision: 17.10.2007

**Trade name: Flake Bronze Powders - Non hazardous**

(Contd. of page 2)

DR

**Colour:** According to product specification

**Odour:** Characteristic

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 2597°C

- **Flash point:** Not applicable.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density:** Not determined.
- **Solubility in / Miscibility with**

**water:** Insoluble.

- **Solvent content:**

**Organic solvents:** 0.0 %

- **Solids content:** 100.0 %

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our

experience and the information provided to us.

- **General notes:** Generally not hazardous for water

- **Product:**
- **Recommendation** Must not be disposed of with general waste
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

GB

(Contd. on page 4)

Page 4/4

**Safety Data Sheet**

**according to 1907/2006/EC, Article 31**

Printing date 10.03.2008 Revision: 17.10.2007

**Trade name: Flake Bronze Powders - Non hazardous**

(Contd. of page 3)

DR

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** Yes
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Transport/Additional information:** Not dangerous according to the above specifications.

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- **National regulations:**
- **Technical instructions (air):**

**Class Share in %**

III 70.0

- **Waterhazard class:** Generally not hazardous for water.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Environment protection department
- **Contact:** Alastair Johnston



GB

# POLYPRINT

## MATERIAL SAFETY DATA SHEET

Product: Polyprint Binder AQ & Polyprint Metallic Binder

Language: English

Issue Date: 01/07/2008

Rev Date: 09/11/2004

### 1. Identification of the Substance / Preparation and Company

DESCRIPTION: See Product Name Above

COMPANY ADDRESS: Health and Safety Department,  
Unit 2, 215-223 Castlereagh Road, Belfast, BT5 5FH United Kingdom.

Telephone: +44 (0) 28 90 460018 Fax: +44 (0) 28 90 790083

Email: polyprint@btinternet.com

EMERGENCY TELEPHONE NUMBER:

FOR ADVICE ON MEDICAL EMERGENCIES, FIRE, SPILLAGE & CHEMICAL HAZARDS

+44 (0) 1865 407333 [INFORMATION AVAILABLE ONLY IN ENGLISH]

### 2. Hazards Identification

No significant hazards

### 3. Composition / Information on Ingredients

DESCRIPTION: Aqueous acrylic emulsion

### 4. First-aid Measures

EYE CONTACT: Immediately rinse with clean water for at least 15 mins  
and obtain medical attention

SKIN CONTACT: Wash with soap and water

INGESTION: Wash out mouth with water. Give water to drink. Do not induce vomiting.  
If a large amount has been ingested, seek medical attention

INHALATION: Remove subject to fresh air

### 5. Fire-fighting Measures

EXTINGUISHING MEDIA: Water Spray, Foam, Dry Powder, Carbon Dioxide

EXPOSURE HAZARDS: None

PROTECTIVE EQUIPMENT: No special measures required

### 6. Accidental Release Measures

ENVIRONMENTAL

PRECAUTIONS: Inform relevant authorities if a major spillage occurs or if the substance has entered a  
water course or sewer or contaminated soil or vegetation

CLEANING PROCEDURES: Mix with sand or vermiculite

CLEANING PROCEDURES: Transfer to a suitable container

CLEANING PROCEDURES: Wash the spillage site with large amounts of water

PERSONAL PRECAUTIONS: Refer to section 8 of SDS for personal protection details

### 7. Handling and Storage

HANDLING: Utilise recommended protective clothing and equipment.

Follow proper standards of industrial hygiene

Avoid contact with the skin and eyes.

Provide adequate ventilation during handling and processing,

especially in confined spaces or where large amounts are being processed  
Use non-sparking tools  
Smoking is forbidden  
Earth any equipment used in handling  
STORAGE:  
Ensure lighting and electrical equipment are not a source of ignition  
Avoid incompatible materials and conditions - see section 10 of SDS  
Store in cool, well ventilated area

## 8. Exposure Controls / Personal Protection

ENGINEERING MEASURES: Ensure there is mechanical ventilation of the area  
RESPIRATORY PROTECTION: Respirator in the absence of local exhaust ventilation  
HAND PROTECTION: Impervious gloves  
EYE PROTECTION: Safety Goggles  
SKIN PROTECTION: Overalls, rubber boots

## 9. Physical and Chemical Properties

PHYSICAL STATE: Liquid  
COLOUR: Various  
ODOUR: Odourless  
pH: 8 - 10  
BOILING POINT: ~ 100 oC  
FLAMMABILITY: Not Available  
AUTOFLAMMABILITY: Not Available  
EXPLOSIVE PROPERTIES: Not Available  
OXIDISING PROPERTIES: Non-oxidising (by EC Criteria)  
VAPOUR PRESSURE: Not Available  
RELATIVE DENSITY: Not Available  
WATER SOLUBILITY: Miscible  
FAT SOLUBILITY: Not Available  
PARTITION COEFFICIENT  
(n-octanol/water): Not Available  
VISCOSITY: Not Available  
OTHER DATA: Not Available

## 10. Stability and Reactivity

CONDITIONS TO AVOID: Keep away from sources of ignition  
Avoid the build up of flammable vapours  
MATERIALS TO AVOID: None Known  
STABILITY: Stable under normal conditions  
HAZARDOUS DECOMPOSITION PRODUCTS:  
In combustion emits toxic fumes of nitrogen oxides  
In combustion emits toxic fumes of carbon dioxide and carbon monoxide

## 11. Toxicological Information

GENERAL: This information has been determined by consideration of the data for this and analogous products  
ACUTE EFFECTS:  
EYE CONTACT No more than slightly irritating to the eyes  
SKIN CONTACT No more than slightly irritating to the skin  
INGESTION Harmful if swallowed  
INHALATION Unlikely to be harmful or irritating on inhalation  
LONG TERM EFFECTS  
SKIN  
SENSITISATION: None Known  
CARCINOGENICITY  
None Known  
MUTAGENICITY None Known  
REPRODUCTIVE  
EFFECTS: Reproductive toxicity data not available

## 12. Ecological Information

GENERAL: Avoid contamination of rivers and soil

DEGRADABILITY - BOD: Not determined [BIOCHEMICAL OXYGEN DEMAND - 5 DAY]

DEGRADABILITY - COD: Not determined [CHEMICAL OXYGEN DEMAND]

ECOTOXICITY: No specific data available

ACCUMULATION: Not Available

MOBILITY: Not Available

## 13. Disposal Considerations

WASTE DISPOSAL: Dispose of in accordance with local regulations. Do not discharge concentrated product into water courses or public sewers without pre- treatment

## 14. Transport Information

GENERAL: Not classified as dangerous for transport

## 15. Regulatory Information

The regulatory information given only indicates the principal regulations specifically applicable to the product described in the safety data sheet.

SI 2002/1689 The Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 [UK]

1999/ 45/EC & amendments

1991/155/EEC & amendments

1967/548/EEC & amendments

NOT CLASSIFIED AS DANGEROUS PREPARATION [1999/45/EC]

CLASSIFICATION: No Single Hazard

RISK PHRASES: None

EINECS: All components are listed in the European Inventory of Existing Commercial Chemical Substances

## 16. Other Information

RECOMMENDED USES: -

RESTRICTIONS FOR USE: -

DISCLAIMER: This product should be stored, handled and used in accordance with good industrial hygiene practice and in conformity with any legal requirements.

The information contained herein is accurate to the best of our knowledge and belief and is intended to describe our products from the point of view of health and safety requirements. It is not therefore to be construed as guaranteeing specific properties

DISCLAIMER: This company shall not be held liable for any damage resulting from handling or from contact with the above product

AMENDMENTS: | indicates amendments

# POLYPRINT

## MATERIAL SAFETY DATA SHEET

Product: Polyprint Pigment Concentrates: Blue Bp; Blue Rnp; Brown; Cobalt Blue; Fushia; Orange Op; Red 3bp; Red 2rp; Red Rp; Rubine 3bp; Rubine 3bp; Turquoise Gp; White Wp; Yellow 3gp; Yellow Rp; Yellow Wp  
Language: English  
Issue Date: 01/07/2008  
Rev Date: 09/11/2004

### 1. Identification of the Substance / Preparation and Company

DESCRIPTION: See Product Name Above  
COMPANY ADDRESS: Health and Safety Department,  
Unit 2, 215-223 Castlereagh Road, Belfast, BT5 5FH United Kingdom.  
Telephone: +44 (0) 28 90 460018 Fax: +44 (0) 28 90 790083  
Email: polyprint@btinternet.com  
EMERGENCY TELEPHONE NUMBER:  
FOR ADVICE ON MEDICAL EMERGENCIES, FIRE, SPILLAGE & CHEMICAL HAZARDS  
+44 (0) 1865 407333 [INFORMATION AVAILABLE ONLY IN ENGLISH]

### 2. Hazards Identification

No significant hazards

### 3. Composition / Information on Ingredients

DESCRIPTION: Dispersion of organic pigment in aqueous media containing dispersing agents and humectants.

PIGMENT CLASS: Mixture

HAZARDOUS COMPONENTS	%	CLASS	R-PHRASE	STEL(15min)	LTTEL TWA(8h)
Ammonia	<1	Xi	R36/37/38	8 mg/m3 [25ppm]	25 mg/m3 [35pp]

### 4. First-aid Measures

EYE CONTACT: Immediately rinse with clean water for at least 15 mins and obtain medical attention  
SKIN CONTACT: Wash with soap and water  
INGESTION: Wash out mouth with water. Give water to drink. Do not induce vomiting. If a large amount has been ingested, seek medical attention  
INHALATION: Remove subject to fresh air

### 5. Fire-fighting Measures

EXTINGUISHING MEDIA: Water Spray, Foam, Dry Powder, Carbon Dioxide  
EXPOSURE HAZARDS: None  
PROTECTIVE EQUIPMENT: No special measures required

### 6. Accidental Release Measures

ENVIRONMENTAL  
PRECAUTIONS: Inform relevant authorities if a major spillage occurs or if the substance has entered a water course or sewer or contaminated soil or vegetation  
CLEANING PROCEDURES: Mix with sand or vermiculite  
CLEANING PROCEDURES: Transfer to a suitable container  
CLEANING PROCEDURES: Wash the spillage site with large amounts of water  
PERSONAL PRECAUTIONS: Refer to section 8 of SDS for personal protection details

## 7. Handling and Storage

**HANDLING:** Utilise recommended protective clothing and equipment.  
Follow proper standards of industrial hygiene  
Avoid contact with the skin and eyes.  
Provide adequate ventilation during handling and processing,  
especially in confined spaces or where large amounts are being processed  
Use non-sparking tools  
Smoking is forbidden  
Earth any equipment used in handling

### STORAGE:

Ensure lighting and electrical equipment are not a source of ignition  
Avoid incompatible materials and conditions - see section 10 of SDS  
Store in cool, well ventilated area

## 8. Exposure Controls / Personal Protection

**ENGINEERING MEASURES:** Ensure there is mechanical ventilation of the area  
**RESPIRATORY PROTECTION:** Respirator in the absence of local exhaust ventilation  
**HAND PROTECTION:** Impervious gloves  
**EYE PROTECTION:** Safety Goggles  
**SKIN PROTECTION:** Overalls, rubber boots

## 9. Physical and Chemical Properties

**PHYSICAL STATE:** Liquid  
**COLOUR:** Various  
**ODOUR:** Odourless  
**pH:** 8 - 10  
**BOILING POINT:** ~ 100 °C  
**FLAMMABILITY:** Not Available  
**AUTOFLAMMABILITY:** Not Available  
**EXPLOSIVE PROPERTIES:** Not Available  
**OXIDISING PROPERTIES:** Non-oxidising (by EC Criteria)  
**VAPOUR PRESSURE:** Not Available  
**RELATIVE DENSITY:** Not Available  
**WATER SOLUBILITY:** Miscible  
**FAT SOLUBILITY:** Not Available  
**PARTITION COEFFICIENT**  
(n-octanol/water): Not Available  
**VISCOSITY:** Not Available  
**OTHER DATA:** Not Available

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Keep away from sources of ignition  
Avoid the build up of flammable vapours  
**MATERIALS TO AVOID:** None Known  
**STABILITY:** Stable under normal conditions  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
In combustion emits toxic fumes of nitrogen oxides  
In combustion emits toxic fumes of carbon dioxide and carbon monoxide

## 11. Toxicological Information

**GENERAL:** This information has been determined by consideration of  
the data for this and analogous products  
**ACUTE EFFECTS:**  
**EYE CONTACT** No more than slightly irritating to the eyes  
**SKIN CONTACT** No more than slightly irritating to the skin  
**INGESTION** Harmful if swallowed

INHALATION Unlikely to be harmful or irritating on inhalation  
LONG TERM EFFECTS  
SKIN  
SENSITISATION: None Known  
CARCINOGENICITY  
None Known  
MUTAGENICTY None Known  
REPRODUCTIVE  
EFFECTS: Reproductive toxicity data not available

## 12. Ecological Information

GENERAL: Avoid contamination of rivers and soil  
DEGRADABILITY - BOD: Not determined [BIOCHEMICAL OXYGEN DEMAND - 5 DAY]  
DEGRADABILITY - COD: Not determined [CHEMICAL OXYGEN DEMAND]  
ECOTOXICITY: No specific data available  
ACCUMULATION: Not Available  
MOBILITY: Not Available

## 13. Disposal Considerations

WASTE DISPOSAL: Dispose of in accordance with local regulations. Do not discharge concentrated product into water courses or public sewers without pre-treatment

## 14. Transport Information

GENERAL: Not classified as dangerous for transport

## 15. Regulatory Information

The regulatory information given only indicates the principal regulations specifically applicable to the product described in the safety data sheet.

SI 2002/1689 The Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 [UK]  
1999/ 45/EC & amendments  
1991/155/EEC & amendments  
1967/548/EEC & amendments

NOT CLASSIFIED AS DANGEROUS PREPARATION [1999/45/EC]

CLASSIFICATION: No Single Hazard

RISK PHRASES: None

EINECS: All components are listed in the European Inventory of Existing Commercial Chemical Substances

## 16. Other Information

RECOMMENDED USES: -

RESTRICTIONS FOR USE: -

DISCLAIMER: This product should be stored, handled and used in accordance with good industrial hygiene practice and in conformity with any legal requirements.

The information contained herein is accurate to the best of our knowledge and belief and is intended to describe our products from the point of view of health and safety requirements. It is not therefore to be construed as guaranteeing specific properties

DISCLAIMER: This company shall not be held liable for any damage resulting from handling or from contact with the above product

AMENDMENTS: | indicates amendments

# POLYPRINT

## MATERIAL SAFETY DATA SHEET

Product: Polyprint Pigment Fluorescent Concentrates: Yellow, Pink & Green

Language: English

Issue Date: 01/07/2008

Rev Date: 09/11/2004

### 1. Identification of the Substance / Preparation and Company

DESCRIPTION: See Product Name Above

COMPANY ADDRESS: Health and Safety Department,  
Unit 2, 215-223 Castlereagh Road, Belfast, BT5 5FH United Kingdom.

Telephone: +44 (0) 28 90 460018 Fax: +44 (0) 28 90 790083

Email: polyprint@btinternet.com

EMERGENCY TELEPHONE NUMBER:

FOR ADVICE ON MEDICAL EMERGENCIES, FIRE, SPILLAGE & CHEMICAL HAZARDS

+44 (0) 1865 407333 [INFORMATION AVAILABLE ONLY IN ENGLISH]

### 2. Hazards Identification

No significant hazards

### 3. Composition / Information on Ingredients

DESCRIPTION: Dispersion of organic pigment in aqueous media containing dispersing agents and humectants.

PIGMENT CLASS: Mixture

HAZARDOUS COMPONENTS	%	CLASS	R-PHRASE	STEL(15min)	LTEL TWA(8h)
Ammonia	<1	Xi	R36/37/38	8 mg/m <sup>3</sup> [25ppm]	25 mg/m <sup>3</sup> [35pp]
Ethane-1, 2-diol	<1	Xn	R22	125mg/m <sup>3</sup>	60mg/m <sup>3</sup>

### 4. First-aid Measures

EYE CONTACT: Immediately rinse with clean water for at least 15 mins and obtain medical attention

SKIN CONTACT: Wash with soap and water

INGESTION: Wash out mouth with water. Give water to drink. Do not induce vomiting.

If a large amount has been ingested, seek medical attention

INHALATION: Remove subject to fresh air

### 5. Fire-fighting Measures

EXTINGUISHING MEDIA: Water Spray, Foam, Dry Powder, Carbon Dioxide

EXPOSURE HAZARDS: None

PROTECTIVE EQUIPMENT: No special measures required

### 6. Accidental Release Measures

ENVIRONMENTAL

PRECAUTIONS: Inform relevant authorities if a major spillage occurs or if the substance has entered a water course or sewer or contaminated soil or vegetation

CLEANING PROCEDURES: Mix with sand or vermiculite

CLEANING PROCEDURES: Transfer to a suitable container

CLEANING PROCEDURES: Wash the spillage site with large amounts of water

PERSONAL PRECAUTIONS: Refer to section 8 of SDS for personal protection details



## 7. Handling and Storage

**HANDLING:** Utilise recommended protective clothing and equipment.

Follow proper standards of industrial hygiene

Avoid contact with the skin and eyes.

Provide adequate ventilation during handling and processing, especially in confined spaces or where large amounts are being processed

Use non-sparking tools

Smoking is forbidden

Earth any equipment used in handling

**STORAGE:**

Ensure lighting and electrical equipment are not a source of ignition

Avoid incompatible materials and conditions - see section 10 of SDS

Store in cool, well ventilated area

## 8. Exposure Controls / Personal Protection

**ENGINEERING MEASURES:** Ensure there is mechanical ventilation of the area

**RESPIRATORY PROTECTION:** Respirator in the absence of local exhaust ventilation

**HAND PROTECTION:** Impervious gloves

**EYE PROTECTION:** Safety Goggles

**SKIN PROTECTION:** Overalls, rubber boots

## 9. Physical and Chemical Properties

**PHYSICAL STATE:** Liquid

**COLOUR:** Various

**ODOUR:** Odourless

**pH:** 8 - 10

**BOILING POINT:** ~ 100 oC

**FLAMMABILITY:** Not Available

**AUTOFLAMMABILITY:** Not Available

**EXPLOSIVE PROPERTIES:** Not Available

**OXIDISING PROPERTIES:** Non-oxidising (by EC Criteria)

**VAPOUR PRESSURE:** Not Available

**RELATIVE DENSITY:** Not Available

**WATER SOLUBLILITY:** Miscible

**FAT SOLUBLILITY:** Not Available

**PARTITION COEFFICIENT**

(n-octanol/water): Not Available

**VISCOSITY:** Not Available

**OTHER DATA:** Not Available

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Keep away from sources of ignition

Avoid the build up of flammable vapours

**MATERIALS TO AVOID:** None Known

**STABILITY:** Stable under normal conditions

**HAZARDOUS DECOMPOSITION PRODUCTS:**

In combustion emits toxic fumes of nitrogen oxides

In combustion emits toxic fumes of carbon dioxide and carbon monoxide

## 11. Toxicological Information

**GENERAL:** This information has been determined by consideration of the data for this and analogous products

**ACUTE EFFECTS:**

**EYE CONTACT** No more than slightly irritating to the eyes

**SKIN CONTACT** No more than slightly irritating to the skin

**INGESTION** Harmful if swallowed

**INHALATION** Unlikely to be harmful or irritating on inhalation

#### LONG TERM EFFECTS

SKIN

SENSITISATION: None Known

CARCINOGENICITY

None Known

MUTAGENICTY None Known

REPRODUCTIVE

EFFECTS: Reproductive toxicity data not available

## 12. Ecological Information

GENERAL: Avoid contamination of rivers and soil

DEGRADABILITY - BOD: Not determined [BIOCHEMICAL OXYGEN DEMAND - 5 DAY]

DEGRADABILITY - COD: Not determined [CHEMICAL OXYGEN DEMAND]

ECOTOXICITY: No specific data available

ACCUMULATION: Not Available

MOBILITY: Not Available

## 13. Disposal Considerations

WASTE DISPOSAL: Dispose of in accordance with local regulations. Do not discharge concentrated product into water courses or public sewers without pre- treatment

## 14. Transport Information

GENERAL: Not classified as dangerous for transport

## 15. Regulatory Information

The regulatory information given only indicates the principal regulations specifically applicable to the product described in the safety data sheet.

SI 2002/1689 The Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 [UK]

1999/ 45/EC & amendments

1991/155/EEC & amendments

1967/548/EEC & amendments

NOT CLASSIFIED AS DANGEROUS PREPARATION [1999/45/EC]

CLASSIFICATION: No Single Hazard

RISK PHRASES: None

EINECS: All components are listed in the European Inventory of Existing Commercial Chemical Substances

## 16. Other Information

RECOMMENDED USES: -

RESTRICTIONS FOR USE: -

DISCLAIMER: This product should be stored, handled and used in accordance with good industrial hygiene practice and in conformity with any legal requirements.

The information contained herein is accurate to the best of our knowledge and belief and is intended to describe our products from the point of view of health and safety requirements. It is not therefore to be construed as guaranteeing specific properties

DISCLAIMER: This company shall not be held liable for any damage resulting from handling or from contact with the above product

AMENDMENTS: | indicates amendments