

# Bath Potters' Supplies

## MATERIAL SAFETY DATA SHEET

### 1. Identification of the Preparation/Supplier reference

Trade Names.

**BP1S    BP4S    BP32S    BP35S**  
**BP2S    BP5S    BP33S    BP37S**  
**BP3S    BP24S    BP34S**

Chemical name            Mixture of chemicals  
Synonyms                BP5S or BP5P dependent upon supplied form; ready-mixed or powder.  
Supplier                 Bath Potters' Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate  
                               Radstock, Nr Bath. BA3 4XE  
Emergency numbers     Tel:    01761 411077  
                               Fax:    01761 414155  
                               Internet: [coshh@bathpotters.demon.co.uk](mailto:coshh@bathpotters.demon.co.uk)

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### 2. Composition

|   |            |           |  |
|---|------------|-----------|--|
| Cobalt oxide Co <sub>3</sub> O <sub>4</sub> | 1308-06-1  | 2151572   | For % of these oxides per 100%             |
| Cobalt Carbonate                            | 513-79-1   | 208-169-4 | of raw materials please refer to           |
| Manganese Dioxide                           | 01313-13-9 | 215-202-6 | table at the end of this document.         |
| Quartz                                      | 14808-60-7 | 2388784   | refer to table at the end of this document |

Supplied in slop state .    organic binders/antibacterial agents are present (concentration of less than <5.0% by weight.)  
Supplied as powder .     All hazards should be considered serious.

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### 3. Health Hazard Identification

Inhalation                Excessive exposure to the dust residue of this product may cause irritation of the respiratory tract and mucous membranes. Prolonged and repeated exposure to silica dust is likely to cause fibrosis of the lungs (silicosis), impaired pulmonary function and cause chronic lung damage. The manganese dioxide in this product is harmful through prolonged exposure and may reduce fertility in men. See section 11.

Ingestion                Product is of low solubility in body fluids and likely to be of low acute toxicity. The manganese dioxide in this product is harmful through prolonged exposure and may reduce fertility in men. See section 11.

Eyes                      May cause physical irritation and inflammation.

Skin                        Not a primary irritant, but any abrasive powder may give risk to sensitisation and irritation. Some cobalt compounds have been shown to cause dermatitis.

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### 4. First Aid Measures

Inhalation                Remove patient to fresh air and loosen tight clothing. Keep the patient warm and comfortable whilst seeking medical attention.

Ingestion                Do not induce vomiting. Seek medical advice. If the patient is conscious rinse out mouth with water, and give 200-300ml (half a pint) of milk or water to drink.

Eyes                      Irrigate immediately with copious amounts of water for 15 minutes, paying particular attention to under the eyelid. Seek medical attention.

Skin                        Remove contaminated clothing and wash affected areas with soap and water. If irritation persists seek medical attention.

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### 5. Fire Fighting Measures

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|                     |   |
|---------------------|---|
| Extinguishing Media | Suitable for surrounding fire conditions. The product is not explosive or combustible. Standard fire fighting techniques only are required, i.e. water, sand, carbon dioxide, chemical foam extinguishers etc.<br>Special Exposure hazard None<br>Personal protective equipment Fire fighters should wear self-contained breathing apparatus. |
|---------------------|---|

## 6. Accidental Release Measures

|                      |  |
|----------------------|--|
| Leaks & Spills       | Large spillage of slop materials should be absorbed with an inert material such as sand. Remove any dry materials either by a vacuum cleaner fitted with an efficient particulate filter, or by wet sweeping to avoid dust. Store collected waste in a suitable closed container before disposal. Small amounts may be run into drains with plenty of water provided local effluent control limits are adhered to. |
| Protective equipment | Respiratory protective equipment.  |

## 7. Handling & Storage

|          |  |
|----------|--|
| Handling | Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material. Local exhaust ventilation is recommended to comply with occupational exposure limits (refer to Guidance Note EH40 .latest edition). When supplied in a powdered form, it is essential that the bags are resealed immediately after use to avoid the build-up of dust as far as is possible. We strongly recommend conversion to a paste or slurry in order to minimise inhalation hazards.<br>Storage Store in a cool dry area in sealed containers. |
|----------|--|

## 8. Exposure Control/Personal protective Equipment

|                      |   |
|----------------------|---|
| Engineering controls | Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended<br>Personal protective Where LEV is not practicable and exposure is likely to be excessive, approved respiratory equipment protection to CEN standards pr EN 140, 141, 143 or 149 should be worn.<br>Protective gloves and overalls are recommended for prolonged contact. Goggles to BS2092 are also recommended if eye contact is at all possible. |
|----------------------|---|

## 9. Physical & Chemical properties

|                      |   |
|----------------------|---|
| Appearance & Odour   | Coloured aqueous suspension with a faint chemical odour or, odourless coloured powder |
| Flash point (°C)     | Not applicable  |
| Flammability         | Non-flammable   |
| Explosive properties | Non-explosive   |
| Oxidising properties | Non-oxidising   |
| Specific gravity     | Not known   |
| pH value             | Not known   |
| Melting point (°C)   | Not available   |

## 10. Stability & Reactivity

|                               |   |
|-------------------------------|---|
| Chemical stability            | The material is stable  |
| Conditions/materials to avoid | Cobalt oxide is soluble in acids and manganese dioxide reacts with peroxides and easily oxidised matter, however due to the very small amounts of each oxide present in the product these effects are very unlikely.<br>Hazardous decomposition products None known<br>Hazardous polymerisation products None known |

## 11. Toxicology Information

|                  |   |
|------------------|---|
| Acute toxicology | LD <sub>50</sub> Oral >2000 mg/kg<br>LD <sub>50</sub> Dermal Not known<br>LD <sub>50</sub> Inhalation Not known |
| Health effects   | Excessive exposure to any dust may cause irritation of the respiratory tract and mucous membranes.              |

Prolonged and repeated exposure to silica dust is likely to cause fibrosis of the lungs (silicosis), impaired pulmonary function and cause chronic lung damage. Manganese Dioxide poisoning is a notifiable industrial disease affecting the central nervous system, its' occurrence is extremely rare and is thought to arise after ingestion of substantial quantities over a prolonged period. Prolonged and repeated exposure to cobalt oxide may cause aggravation of asthma, sensitisation, cancer, blood disorders and damage to the heart, thyroid and pancreas.

## 12. Ecological information

|             |  |
|-------------|--|
| Ecotoxicity | No adverse effects to the environment are expected.    |
| Persistence | Chemically stable and will persist in the environment. |

## 13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1980). Landfill is the most appropriate method. Minor amounts may be washed into trade effluent drains provided local effluent control conditions are complied with.

## 14 Transport Information

|               |                     |
|---------------|---------------------|
| UN/SI No.     | Not classified      |
| UN Class      | Not classified      |
| Packing group | Not classified      |
| Road          | UK Not classified   |
|               | ADR Not classified  |
| Sea           | IMO Not classified  |
| Air           | ICAO Not classified |

## 15. Regulatory information

|   |  |                              |
|---|--|------------------------------|
| EC Supply Labelling   | <b>Harmful X,</b>  |                              |
| R-Phrases   | R20/22 Harmful by inhalation and if swallowed<br>R43 May cause sensitisation by skin contact<br>R48 Danger of cumulative effects   |                              |
| S-Phrases   | S13 Keep away from food, drink and animal feeding stuffs.<br>S20/2 1 When using, do not eat, drink or smoke.<br>S22/23 Do not breath dust or spray.<br>S24 Avoid contact with skin.<br>S38 In case of insufficient ventilation wear suitable respiratory equipment. UK |                              |
| Occupational exposures limits* Mg/in <sup>3</sup> 8 hr TWA % in product |  |                              |
| Low toxicity dust .inhalable  | 10   | 76%                          |
| .respirable   | 5  | ditto                        |
| Crystalline silica .inhalable   | 0.3  | 24%                          |
| .respirable   | 0.1  | ditto                        |
| Cobalt compounds  | 0.10   | 0.4% (in 100% raw materials) |
| Manganese compounds   | 5  | 0.8% ditto                   |

\* Refer to HSE Guidance note EH40

In accordance with the H.S.E. Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both time Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

## 16 Other information

## Summary per product

| GLAZE NUMBER | <u>PERCENTAGE IN THE RECIPE</u> |                  |                   | approximate % Quartz |
|--------------|---------------------------------|------------------|-------------------|----------------------|
|              | Cobalt Oxide                    | Cobalt Carbonate | Manganese Dioxide |                      |
| BP1S         | 1                               |                  | 3                 | 11                   |
| BP2S         |                                 | 1.33             |                   | 22                   |
| BP3S         | 2.2                             |                  |                   | 27                   |
| BP4S         | 1.1                             |                  |                   | 17                   |
| BP5S         | 0.4                             |                  | 0.8               | 25                   |
| BP24S        | 1.8                             |                  |                   | 20                   |
| BP32S        |                                 |                  | 16                | 15                   |
| BP33S        | 3                               |                  |                   | 15                   |
| BP34S        |                                 |                  | 16                | 15                   |
| BP35S        | 3                               |                  | 4                 | 15                   |

General industrial hygiene practices are recommended when handling and using this product.

COSHH ACOP: H.S.C. Approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994.

CHIP 96: Chemicals (Hazard Information and Packaging for Supply) Regulations 1996.

CHIP SDS ACOP: H.S.C. Approved Code of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP regulations.

HSE EH40: HSE Guidance note EH40 on Occupational Exposure Limits, to be used in conjunction with the COSHH regulations.

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## 17. National Legislation

### **UK Legislation**

SI1993/1746 Chemicals (Hazard Information and Packaging) Regulations 1993

Environmental Protection (Duty of Care) regulations 1992 SI 2839

Carriage of Dangerous goods by Road and Rail Regulations 1994

Control of pollution Act 1974

Environmental Protection Act 1990

Highly Flammable Liquids and Petroleum Spirit Regulations 1972

EH40 Occupational Exposure Limits

SI1988/1657 The Control of Substances Hazardous to Health Regulations

Note - This is not an exhaustive list and users should satisfy themselves that they comply with all relevant National Regulations

### **Important notes**

Design CHIP-002

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Further reference can be made to our standard terms and conditions of sale, a copy of which is available on request. The information contained in this safety data sheet has been prepared using the best available information. However, in view of technical developments this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Due to the many factors outside our control when using this product we cannot accept liability for any injury, accident, loss or damage caused through its use.

### **Footnote**

LIABILITY

Such information is the best of Bath Potters Supplies' knowledge and belief accurate at the date of publication, which is the date generated automatically on the day of printing of this document. However, no representation, warranty of guarantee is made as to its accuracy, reliability of completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.

#### THIRD PARTY MATERIALS

Insofar as materials not manufactured or supplied by Bath Potters Supplies are used in conjunction with, or instead of Bath Potters Supplies materials, it is the responsibility of the customer itself to obtain from the manufacturer or supplier all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of Bath Potters Supplies materials in conjunctions with other materials.

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