



INTO SERVICE INFORMATION (ISI)

PRODUCT

1772 - Frankfurt Black Pigment

Company Identification:

T N Lawrence & Son Ltd.
208 Portland Road
Hove, BN3 5QT

Emergency Telephone Number:

01273 260260

Installation of HA Adsorption Media

The following guidelines should be followed in order to install HA Adsorption media in a vessel for use in water treatment.

These guidelines are independent of vessel design, and issues such as vessel dimensions and internal structures are not considered in this guide.

All work must be carried out with regards to safe working conditions.

Please refer to the Material Safety Data Sheet (MSDS) supplied for further information.

Installation

Fill the vessel approximately half full with water. Using appropriate safety equipment, empty the 25kg bags of media into the vessel, trying to ensure even distribution of the media within the vessel. Dust may be generated during this operation and respiratory/eye protection may be required. Ensure the top of the bed does not break through the surface of the water in the vessel. Add more water where this may occur. Once all the bags of media have been added to the vessel, ensure the top of the bed is even and level.

Make all relevant connections to the vessel, and where using pressurised vessels, ensure all air is excluded from the vessel before sealing. Wash the bed with water to fully settle the bed and remove any fines. This may take up to 20 bed volumes. Once there is no evidence of fines within the wash water, the vessel containing the media may be placed online.

pH level

When water is first passed through the new media, the pH of the water will be raised. The pH can rise as high as pH11. To remove any pH elevation, continue to pass water through the new media vessel until the pH is acceptable for your use. During the washing period the used water should be sent to the drain, whilst observing local regulations for discharge.

The information and recommendations in this publication are, to the best of our knowledge, information and belief, accurate at the date of publication. Nothing herein is to be construed as warranty, expressed or implied. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose.

MATERIAL SAFETY DATA SHEET (MSDS)

MSDSISIC 102 A

1. PRODUCT

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2. CHEMICAL COMPOSITION

Carbonaceous adsorbent composed of carbon and hydroxyapatite (a basic calcium phosphate)

CAS Number:

8021-99-6

Customs Tariff Number:

3802.9000

3. HAZARDS IDENTIFICATION

Health Effects: 10 mg/m³ TWA, 8-hr (there is no OES for BRIMAC HA 10000; The given value is applicable as a nuisance dust limit).

4. FIRST AID MEASURES

Skin contact: Wash off with soap and plenty of water, removing all contaminated clothes and shoes.

Eye Contact: Irrigate the eye with water for 15 minutes. If there is any persistent irritation obtain medical attention immediately.

Inhalation: Inhalation of BRIMAC HA 10000 can cause irritation to the respiratory system. Remove affected person to fresh air. If recovery is delayed, seek medical advice.

Ingestion: Ingestion of BRIMAC HA 10000 may irritate the digestive tracts.

As no harmful effects are anticipated, vomiting should not be induced.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, foam, fog/water spray, dry powder.

Protective Equipment: Chemical protection suit, gloves and boots, self contained breathing apparatus.

Special Hazards: Non flammable in bulk. Will smoulder if ignited. Risk of carbon monoxide formation where air circulation is restricted.

Hazardous decomposition products: Thermal decomposition can lead to the release of carbon dioxide, and a little hydrogen sulphide may be given off on reaction with mineral acids.

11. TOXICOLOGICAL INFORMATION

None

12. ECOLOGICAL INFORMATION

None

13. DISPOSAL CONSIDERATIONS

All local and national regulations should be followed.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Marking and Labelling.

Symbol:

None.

Risk Phrases:

R36 - Irritating to eyes
R37 - Irritating to respiratory system
R38 - Irritating to skin
S36, S37/S39

Safety Phrases:

16. OTHER INFORMATION

None

Products covered by this document:

HA 10000 Series

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective clothing. (See item 8).
Environmental precautions: Dispose of within local or national regulations.
Methods for Cleaning up: Sweep or shovel into suitable container for disposal.

7. HANDLING AND STORAGE

Handling precautions: Maintain good working practices while handling.
Remove contaminated clothing and wash before reuse
Storage condition: Minimise dust formation. Keep dry. Keep away from strong oxidising agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: HA 10000 may contain trace quantities of ammonia which can be released during initial washing. Ensure adequate ventilation. In confined areas a respirator suitable for ammonia should be worn.
Skin Protection: Suitable gloves. Lightweight protective clothing.
Eye Protection: Tightly fitting safety goggles.
Respiratory Protection: Wear suitable dust mask.
Additional: Before eating, drinking or smoking, wash hands and face thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour: Black.
Material State: Granular or powdered solid.
Odour: Non specific.
pH: 8.5-12
Boiling point (°C): Not applicable
Melting point (°C): Not applicable
Flash point (°C): Not applicable
Flammability: Not determined
Auto Ignition temperature: Not determined
Explosive properties: Class B - non-explosive
Oxidising properties: Not applicable.
Vapour Pressure: Not applicable.
Bulk density (kg/m³): 560-720
Solubility (water): Insoluble.

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperatures
Conditions to avoid: Keep away from heat and sources of ignition
Materials to avoid: Reactive chemicals, especially oxidising agents