

MATERIAL SAFETY DATA SHEET

Date: 18/08/2022

Product Name - MONKO® Bio-Treatment Powder

SECTION 1 - PRODUCT IDENTIFICATION

Company Identification:

CRYSTAL CLEAR Consulting & Merchants Pty Ltd, PO BOX 2123, Highlands North,
South Africa 2037 PH: +2711 524 0661 Email: info@crystalclear.co.za

PRODUCT NAME : MONKO®

CHEMICAL : Inert Bentonite powder with enzymatic mixture of natural, single-celled organisms

Emergency Tel No: +27 8244 44296

SECTION 2 – COMPOSITION/ Information on INGREDIENTS

Bentonite mineral with an enzymatic mixture of active, natural hydrocarbon oxidizing singled celled micro-organisms. The enzymes and single cells are contained in an inert preparation of Bentonite mineral powder. This powder mixture has no chemical impact.

SECTION 3 – HAZARD IDENTIFICATION

Inhalation: Dust may cause irritation of the nose, eye, throat and respiratory passages

Skin contact: Dust can cause drying of skin by absorbing moisture

Ingestion: No adverse effects expected for normal, incidental ingestion

Reactivity: The constituents of this product are non-reactive minerals

Corrosivity: This product is non-corrosive.

This mixture contains 0.01 - 0.05% crystalline silica, which may cause delayed respiratory disease if inhaled over a prolonged period of time.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT : Flush the eyes immediately with large amounts of running water, lifting the upper and lower lids.

SKIN CONTACT : Wash affected area with soap and water.

INHALATION : Use a fine dust mask when handling the powder

INGESTION : No adverse effects identified over 20 years of use.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A Fully oxidized, no vapour to burn

AUTOIGNITION TEMP : N/A Will not burn

FLAMMABLE LIMITS: LEL : N/A UEL : N/A

EXTINGUISHING MEDIA: This product will not burn but is compatible with all extinguishing media

UNUSUAL FIRE AND EXPLOSION HAZARDS : None

HAZARDOUS COMBUSTION PRODUCTS : None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SMALL SPILL : Sweep up and re-use

LARGE SPILL : Recover powder with shovels and re-use

CONDITIONS TO AVOID : Windy conditions. Dust will occur

SECTION 7 – HANDLING and STORAGE

Do not breathe the dust. Avoid the creation of dust. Use good housekeeping in storage and usage areas to prevent accumulation of dust in work areas. Keep product in a dry location.

HANDLING AND STORING PRECAUTIONS : Do not contaminate food when storing or disposing of product.

RESPIRATORY PROTECTION : Wear dust mask when handling fine powders

PROTECTIVE CLOTHING : Standard gloves and boots

ADDITIONAL PROTECTIVE MEASURES: Powder is slippery when wet & take care

General Notes:

Powder may disperse in the wind. Wet powder as soon as possible when handling.

SECTION 8 – EXPOSURE CONTROLS and PERSONAL PROTECTION

VENTILATION : Use local suction point hoses to control dust formation

EYE PROTECTION : Safety glasses or goggles recommended

GLOVES : Protective gloves recommended

RESPIRATORY PROTECTION: Use appropriate dust mask for fine powders

Other protective Equipment: As appropriate for the work environment

SECTION 9 – PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE	:	fine grey to cream powder
ODOUR	:	faint to no odour
WATER SOLUBILITY	:	not soluble . powder is hygroscopic
BULK DENSITY	:	0.7 to 0.9 kg/l
BOILING POINT		- not applicable
MELTING POINT		- not applicable
VAPOUR PRESSURE		- not applicable
pH		- not applicable
SOLUBILITY IN WATER:		negligible
PERCENT VOLATILE :		0
VAPOR DENSITY :		- not applicable
MELTING POINT :		1300 °C
SPECIFIC GRAVITY :		0.92 (water=1)
EVAPORATION RATE:		- not applicable

SECTION 10 – STABILITY and REACTIVITY DATA

STABILITY	:	This product is stable
CONDITIONS TO AVOID	:	None
HAZARDOUS POLYMERISATION	:	Will not occur
INCOMPATIBILITY	:	None

SECTION 11 – TOXICOLOGY INFORMATION

Inhalation: This product contains 0.01 - 0.05% crystalline silica, which may cause delayed respiratory disease if inhaled over a prolonged period of time.

No acute toxicity data - refer to Section 3 for health hazard information.

SECTION 12 – ECOLOGICAL INFORMATION

This product has been used for over 20 years without negative impact.

This product enhances the environment by rapidly decomposing sewage and oil spillages on water and in soil. The by-products from sewage & oil bioremediation are protein biomass, compost products and other environmentally compatible materials. After treating high

concentrations of contamination, the discharge of the treated material may need to be diluted with water to meet local discharge consent limits.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable local, provincial and national regulations. The components of this material are natural organisms that do not pose a hazard to the environment.

SECTION 14 – TRANSPORT INFORMATION

US DOT HAZARD CLASSIFICATION

Proper Shipping name: Not regulated

Labels required: None

Technical name: Hydrocarbon decomposing product

DOT Packing requirements: None

UN Number: N/A

Exceptions: N/A

Hazard Class/Packing group: N/A

General Notes: Powder may disperse in the wind. Wet powder as soon as possible when handling.

SECTION 15 – REGULATORY INFORMATION

In terms of the Occupational Health and Safety Act the risks associated with this product are:

1. Dust must be controlled and suitable dust masks worn when handling the powder in the open.
2. When the powder is wet it is very slippery
3. The powder must not be ingested as it contains aerobic microbes.
4. Warning-This mixture contains 0.01-0.05% crystalline silica, which may cause delayed respiratory disease if inhaled over a prolonged period of time.

SECTION 16 – OTHER INFORMATION

Date of issue: 18 August 2022

Version Number: 28

First issue: 10 July 1994

The information contained herein is offered only as a guide to the handling of the specific material and has been prepared in good faith. No warranty of any kind is given or implied and Crystal Clear, will not be liable for any damages, losses, injuries or consequential damage which may result from the use or reliance on any information contained herein.