

# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION

MANUFACTURERS NAME: NPK Industries,  
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DATE PREPARED: May 1 2014

## SECTION II: HAZARDS IDENTIFICATION

*None of the ingredients contained in Microbes Grow Stage are deemed hazardous*

EFFECTS OF MEDICAL CONDITIONS RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:

Respiratory disease (bronchitis, asthma, emphysema)

OVEREXPOSURE: Acute: may cause eye & respiratory irritation

Chronic: None known

GENERAL PRECAUTIONS: Always practice good hygiene wash hands thoroughly after handling. Do not get in eyes or on skin. Do not ingest

PRIMARY ROUTE OF ENTRY: Eyes, lungs

ATCC CLASSIFICATION: Bio-Safety Level 1

## SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS SUBSTANCE

PRODUCT NAME: **Microbes Grow Stage**

DESCRIPTION: Free flowing microbial inoculant containing all natural, non genetically altered beneficial soil microorganisms (Endomycorrhizal Fungi, Bacillus) impregnated on a mineral based carrier.

INGREDIENTS: hydrated sodium calcium aluminosilicate, microbial cultures, dextrose, sucrose, amino acids (Soy Protein)

ATCC CLASSIFICATION: Bio-Safety Level 1

## SECTION IV: FIRST AID MEASURES

SKIN: Remove contaminated clothing and wash hands thoroughly after use. If irritation occurs consult with physician.

EYES: Flush eyes with cool water for 15 minutes, remove contact lenses and consult physician if irritation persists

INGESTION: If conscious rinse mouth and dilute with fluids. Consult physician or poison control for further treatment advice

INHALATION: Move person to fresh air and consult physician for further treatment advice.

NOTE TO PHYSICIAN (Antidote): N/A

OTHER: Contains soy proteins avoid product if you are allergic to soy proteins

## SECTION V: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use appropriate media for underlying cause of fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus. Product is not flammable and can be quickly diluted with water.

FLASH POINT: N/A

SPECIAL FIRE HAZARDS: None

SPECIFIC HAZARDS: None

## **SECTION VI: ACCIDENTAL RELEASE MEASURES AND DISPOSAL**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear protective equipment as outlined in section VII, sweep up spill using dust suppressant (such as water). Dispose of in accordance with local, state & federal regulations for Natural Soil Bacteria Protocol.

Waste is Non Hazardous as defined by RCRA (40 CFR261)

REPORTABLE QUANTITY (RQ) UNDER CERCLA: NO

## **SECTION VII: STORAGE, HANDLING**

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Do not get in eyes, breathe in dust or ingest. Upon contact wash affected area with soap and water. Store in original container with lid tightly secured. Store product in a cool, dry place on a pallet or rack system. Avoid excessive heat & sunlight.

OTHER: Always follow label directions

## **SECTION VIII: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

PERSONAL PROTECTIVE EQUIPMENT

EYE / FACE PROTECTION: Eye protection (OSHA Approved) is recommended if potential for excessive dust exists

HAND / SKIN PROTECTION: Skin protection (OSHA Approved) is recommended for those individuals with sensitive skin

RESPIRATORY PROTECTION: Respiratory protection (OSHA Approved) is recommended if potential for excessive dust exists when utilized in doors.

OTHER: Wear pants, shirt, shoes and socks

ENGINEERING CONTROLS:

Local exhaust or general ventilation to maintain exposure below PEL

PEL: N/A

## **SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: off white – tan free flowing powder with characteristic fermentation odor

SOLUBILITY: primarily insoluble, creates suspension

BOILING POINT: N/A

FLAMMABILITY: N/A

MELTING POINT: > 1000° F

FREEZING POINT: N/A

EVAPORATION RATE: N/A

VAPOR DENSITY (Air = 1): N/A

SPECIFIC GRAVITY: 0.8 -0.9

BULK DENSITY: 48 - 50 lbs per sq ft

pH: N/A

MOISTURE CONTENT: < 10.00 %

## **SECTION X: STABILITY AND REACTIVITY INFORMATION**

HAZARDOUS DECOMPOSITION PRODUCT: None

INCOMPATIBILITY: Acids, bases, heat sources, reducing agents, disinfectants, hydrofluoric acid, excessive moisture

STABILITY: Stable under normal conditions

HAZRDOUS POLYMERIZATION: None

CONDITIONS TO AVOID: Excessive moisture & heat during storage

## **SECTION XI: TOXICITY INFORMATION**

### **CARCINOGENICITY REFERENCE**

I.A.R.C: No

N.T.P.: No

THRESHOLD LIMIT VALUE: Mineral particulates from hydrated sodium calcium aluminosilicate are classified as nuisance dusts by the American Conference of Governmental Industrial Hygienists (ACGIH) in their 1983-1984 TLV list. This material contains some free silica (fine silt and sand).

Use ACGIH Publication to determine appropriate TLV

EFFECTS OF OVER EXPOSURE: Repeated inhalation of excessive concentration of any dust, including this material, may lead to lung injury

## **SECTION XII: ECOLOGICAL INFORMATION**

Avoid discharge in to streams, lakes, waterways & storm drains

ECOTOXICITY (AQUATIC AND TERRESTRIAL): ND, deemed non toxic

PERSISTENCE AND DEGRADABILITY: contains natural soil bacteria, actinobacteria & fungi and food grade ingredients (microbial nutrients). Generally considered chemically inert in the environment

BIOACCUMULATIVE POTENTIAL: ND

MOBILITY IN SOIL: ND

OTHER ADVERSE EFFECTS: None observed

## **SECTION XIII: DISPOSAL CONSIDERATIONS**

Dispose of unused product in accordance with local, state & federal regulations for Natural Soil Bacteria Protocol. Triple rinse container and recycle

## **SECTION XIV: TRANSPORT INFORMATION**

DOT SHIPPING NAME: Not classified as hazardous

TRANSPORT HAZARD CLASS: Not classified as hazardous

UN NUMBER: Not classified as hazardous

HAZARD CLASS: Not classified as hazardous

PRIMARY HAZARD LABEL: Not classified as hazardous

SUBSIDIARY RISK LABEL: Not classified as hazardous

WHMIS CLASSIFICATION: Not classified as hazardous

MARINE POLLUTANT: contains natural soil bacteria, actinobacteria & fungi and food grade ingredients (microbial nutrients). Generally considered chemically inert in the environment

## **SECTION XV: REGULATORY INFORMATION**

### **SARA 311/ 312**

Diatomaceous earth carrier HAZARD CATEGORIES– IMMEDIATE AND DELAYED HEALTH

**SARA 313:** Not reportable

**CERCLA:** Not reportable

This product does not contain any ingredients on RCRA P or U lists of Federal Hazardous Waste

\* This product does not contain any ingredients on the Clean Air Act (CAA) list of Hazardous Waste.

## **SECTION XVI: OTHER INFORMATION**

**TO THE BEST OF OUR KNOWLEDGE THIS INFORMATION IS TRUE AND ACCURATE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL. WE**

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