

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION

MANUFACTURERS NAME: KALIX

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DATE PREPARED: 1/28/2019

SECTION II: HAZARDS IDENTIFICATION

None of the ingredients contained in KALIX Microbes Maintain 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: **KALIX Microbes Maintain**

DESCRIPTION: Free flowing microbial inoculant containing all natural, non genetically altered beneficial soil microorganisms (Bacillus, Paenibacillus, Pseudomonas, Streptomyces, Trichoderma) 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

HAZARDOUS 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 DO NOT ASSUME ANY RESPONSIBILITY FOR THE RESULTS OF ITS USE. THIS INFORMATION IS FURNISHED UPON THE CONDITION THAT THE PERSON RECEIVING THIS PRODUCT SHALL MAKE HIS / HER OWN DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR THEIR PARTICULAR PURPOSE. THIS INFORMATION IS PROVIDED IN GOOD FAITH BUT WITHOUT EXPRESSED OR IMPLIED WARRANTY. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO TAKE APPROPRIATE PRECAUTIONS.

