

# MATERIAL SAFETY DATA SHEET

## SECTION 1

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Product Identifier: ORYKTA®

WHIMIS Classification: N/A

Product Use: Agriculture, Feed Additive

Manufacturers Name: PMMR, Incorporated

Suppliers Name: PMMR, Incorporated

Street Address: P.O. Box 270

Street Address: P.O. Box 270

City: Fairview Village, PA

City: Fairview Village

State: PA

State: PA

Postal Code: 19409

Postal Code: 19409

EMERGENCY TELEPHONE: 1-717-580-9852

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DATE OF MSDS PREPARATION: September 2016

MSDS PREPARED BY: S. Charles Picardi

PHONE: 1-610-420-2253

## SECTION 2

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**Composition Ingredients:** Primarily CAS # 13397-24-5

**Hazardous Ingredients:** None, ORYKTA is non-hazardous\* (GRAS) as per the Generally Accepted As Safe as per the USFDA.

**\*ORYKTA® is an unprocessed, mined, mineral composite primarily comprised of hydrated sodium sulfate and Montmorillonite. ORYKTA® is designated as a chemical/substance added to food that is considered safe by experts, and so is exempted from the Federal Food, Drug, and Cosmetic Act (FFDCA) food additive tolerance requirements.**

**Route(s) of Exposure:**

**Skin-Yes Skin Adsorption-No Eye Contact-Yes Inhalation: Yes Ingestion-Yes**

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## SECTION 3

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**Hazardous Identification:** None Required, Non-hazardous material

## SECTION 4

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### First Aid Measures:

**Skin**-follow routine hygienic practices such as washing with soap and water

**Eyes**-follow routine hygienic practices such as flushing with soap and water

**Ingestion**-Inert material, no treatment required

## SECTION 5

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**Fire Fighting Measures:** None required, non-flammable

## SECTION 6

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**Accidental Release Measures:** None required, inert material. Clean up spill or release as per local, municipal, state, and federal rules and regulations.

## SECTION 7

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**Handling and Storage:** No handling or storage requirements required.

## SECTION 8

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**Exposure Control and Personal Protection:** ORYKTA<sup>®</sup> is a GRAS material and does not require exposure or PPE precautions. As is the case with all nuisance dust materials, it is recommended that a face mask/dust mask be used when handling ORYKTA<sup>®</sup>.

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## SECTION 9

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### Physical and Chemical Properties:

**Physical State**-Granular Powder      **Odor and Appearance:** tan, odorless granular powder  
**Specific Gravity:** >1 (3000 lbs./cu.yd.)      **Odor Threshold:** None  
**Vapor Density:** N/A      **Vapor Pressure:** N/A  
**Evaporation Rate:** N/A      **Freezing Point:** N/A  
**pH:** 4.9, solid, miscible in H<sub>2</sub>O      **Boiling Point:** N/A

## SECTION 10

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**Stability and Reactivity**-Stable, unreactive material

## SECTION 11

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**Toxicology**-non toxic, non-mutagenic, non-embrotoxic, non-carcinogenic

**Effects of Exposure**-None

**Effects of Chronic Exposure:** None

**Irritant:** No

**Skin Sensitizer:** No

**IARC Carcinogenicity:** None known

**Reproductive Toxicity:** None known

## SECTION 12

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**Ecological Information:** None ecologically impacting

# MATERIAL SAFETY DATA SHEET

## SECTION 13

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**Disposal:** Non-hazardous, dispose of as per local, municipal, state, and federal rules and regulations.

## SECTION 14


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**Transportation Restrictions:** None

## SECTION 15

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**OTHER INFORMATION:** ORYKTA<sup>®</sup> is a geographically unique unprocessed mineral composition used in agriculture, animal feed, and crop enhancement, and other life science applications. ORYKTA<sup>®</sup> is primarily comprised of a unique mineral blend of iron sodium sulfate and Montmorillonite along with a multitude of critical minerals. ORYKTA<sup>®</sup> is a GRAS designated material and is generally regarded as safe by the USFDA. ORYKTA<sup>®</sup> is a chemical/substance/composition that is considered safe by experts; and, is exempt from the usual Federal Food, Drug, and Cosmetic Act (FFDCA) food additive tolerance requirements. ORYKTA<sup>®</sup> is a non-toxic, non-reactive, and essentially inert mineral composition.

 _____ Bill Minor – PMMR September 2016	<i>S. Charles Picardi</i> _____ S. Charles Picardi – Lehigh University (LNN) September 2016
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