



# MATERIAL SAFETY DATA SHEET

## Royale Silicon Blended (RSB) 13-13-21

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### 1. Identification of the substance/preparation and of the company/undertaking

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#### Identification of the substance or preparation

Product name Royale Silicon Blended (RSB) 13-13-21  
Chemical name/ Synonyms Granular Fertilizers including nutrients and micronutrient  
Chemical Family Fertilizer Mixture

#### Company/undertaking identification

Manufacturer / Supplier Goodearth Resources Sdn Bhd  
58, 1<sup>st</sup> Floor, Jalan Pesta ½, Taman  
Tun Dr. Ismail 1,  
84000 Muar Johor Darul Takzim,  
Malaysia  
Tel: +606 9543 931/ 9530 189  
Fax: +606.9536.187

e-mail address of person responsible for this SDS enquiry@goodearthresources.com  
Emergency telephone number +6016 672 8756

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### 2. Hazards identification

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The product is not classified as dangerous according to Directive 67/548/EEC and its amendments.

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### 3. Composition/information on ingredients

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#### Chemical name

Formulated with one or more of the following ingredients.

Nitrogen (N)	Sulphur (S)
Phosphorus (P)	Boron (B)
Potassium (K)	Iron (Ferum)
Orthosilicic Acid ( $H_4SiO_4$ )	Manganese (Mn)
Silica ( $SiO_2$ )	Zinc (Zn)
Magnesium Oxide (MgO)	Molybdenum (Mo)
Calcium Oxide (CaO)	Copper (Cu)

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### 4. Physical and chemical properties

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**Boiling Point:** NA

**Melting Point:** NA

**Vapor Pressure (mm Hg):** NA

**Vapor Density (air = 1):** NA

**Solubility in Water:** Moderate

**Specific Gravity (water=1):** NA

**Evaporation Rate:** NA

**Percent Volatile:** NA

**Appearance and Odor:** multicoloured granules slight pungent odor.

**PH:** 7.80

NA= Not Applicable

### 5. Health Harzards

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**Primary Route(s) of Entry:** Skin, inhalation, ingestion, eyes.

**Signs & Symptoms of Exposure**

Acute: May cause mild irritation to skin and eyes. Ingestion of large amounts may cause gastrointestinal disorder, nausea, vomiting and/or diarrhea.

**Emergency First-Aid Procedures**

**Inhalation:** Avoid breathing dust. Remove to fresh air.

**Ingestion:** Drink warm water and induce vomiting by touching back of throat with finger. Consult a physician.

**Skin:** Remove contaminated clothing and wash affected area with soap and water.

**Eyes:** Flush with clear water for at least 15 minutes. Get medical attention if irritation persists.

### 6. Fire-fighting Measures

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**Extinguishing media:** Water spray

**Special Fire-Fighting Procedures:** Wear NIOSH approved positive pressure, self-contained breathing apparatus. Do not breathe fumes. Remove from area of fire at first opportunity. Prevent water runoff from entering drains, sewers or water sources. Fertilizer will become slippery when wet. Guard against falls.

**Unusual Fire and Explosion Hazards:** If heated to decomposition, will give off toxic fumes of ammonia and formaldehyde. Under fire conditions, urea may decompose to cyanuric acid, biuret or ammonia. Dispersion of fine dust in the air may form an explosive mixture.

### 7. Spill And Leak Procedures

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**If material is spilled:** If material is not contaminated, scoop into clean container for use. If contaminated, scoop into containers for disposal.

### 8. Handling and Storage

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**Precautions:** Store in a cool, dry place if possible. Separate from pesticides, seed, feed, foodstuffs, and away from drains, sewers, and water sources. Do not eat, drink or smoke while handling this product.

**Other Precautions:** Keep out of reach of children. Practice good care and good safety precautions when handling this product. Avoid contact with eye, skin and clothing. Avoid breathing dust. Do not swallow. Wash thoroughly after handling.

**Storage:** Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with combustible materials.

**Packaging materials Recommended :** Use original container.

### 9. Exposure controls/personal protection

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**Protective Equipment Suggested for Outdoor Application:**

Impervious Gloves, Impervious Boots, Clean Clothing, Eye Goggles/ Safety Glasses

**Protective Equipment Suggested for Confined Areas:**

Sufficient Ventilation, Splash Goggles/ Safety Glasses, Eyewash Station, Emergency Shower.

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## 10. Stability and reactivity

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**Stability:** Stable

**Conditions to Avoid:** None known

**Incompatibility:** Strong acids, caustic compounds, humid-wet conditions.

**Hazardous Decomposition Products:** If heated to decomposition, may give off ammonia and formaldehyde as well as oxides of sulfur, manganese, magnesium, iron, potassium and phosphorus. Urea can yield cyanuric acid or biuret upon heating.

**Hazardous Polymerization:** Will not occur

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## 11. Toxicological information

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**Oral LD<sub>50</sub> (acute rat):** >10,000 mg/kg

**Inhalation LC<sub>50</sub>:** NA; expected to have low or no toxicity.

**Eye Irritation:** Mild

**Skin Irritation:** Mild

**Positive Teratogen or Mutagen Carcinogen:** No

**Potential Carcinogenic:** No

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## 12. Ecological information

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**Aquatic ecotoxicity**

**Other ecological information**

**Other adverse effects :** No known significant effects or critical hazards.

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## 13. Disposal considerations

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**Methods of disposal:** Empty containers or liners may retain some product residues. Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in accordance with all applicable local and national regulations.

**Hazardous waste:** Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC..

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## Royale Silicon Blended (RSB) 13-13-21

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## 14. Transport information

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Not regulated.

Not classified as hazardous material according to UN Orange Book and international transport codes e.g. ADR (road), RID (rail), ADN (inland waterways) and IMDG (sea).

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## 15. Regulatory information

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### EU regulations

**Risk phrases :** This product is not classified according to EU legislation.

**Product use:** Industrial applications.

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## 16. Other information

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### History:

**Date of printing:** 2010-09-23

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**Prepared by :** Goodearth Resources Sdn Bhd

### Notice to reader

*To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user.*

*All materials may represent unknown hazards and should be used with caution.*

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