

# MATERIAL SAFETY DATA SHEET — 16 Sections

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Report Number 14-164-225		Product Name AQUAPONIC ELEMENTS		[WHMIS Classification]	Page 2 of 5
Product Use AQUAPONIC SYSTEMS AMENDMENT					
Manufacturer's Name INDA-GRO			Supplier's Name INDA-GRO		
Street Address 6176 FEDERAL BLVD			Street Address 6176 FEDERAL BLVD		
City SAN DIEGO		State CA	City SAN DIEGO		State CA
Postal Code 92114	Manufacturer's Telephone 619-266-4004		Postal Code 92114	Emergency Telephone 1-800-262-8200 (Chem Trec)	
Date MSDS Prepared 6/14/14		MSDS Prepared By Midwest Laboratories, Inc.		Phone Number 402-334-7770	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients ( <i>specific</i> )	%	CAS Number	LD <sub>50</sub> of Ingredient ( <i>specify species and route</i> )	LC <sub>50</sub> of Ingredient ( <i>specify species</i> )
Silica quartz as respirable dust	>50%	14808-60-7		

## SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	<input checked="" type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Eye Contact	<input checked="" type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion						
Emergency Overview Continuous inhalation of dust/powder has the potential of silicosis.											
WHMIS Symbols											
<p style="text-align: center;">Flammability</p> <table style="margin: auto;"> <tr> <td style="text-align: center;">Health</td> <td style="text-align: center;">0</td> <td style="text-align: center;">Instability</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> <td></td> </tr> </table>						Health	0	Instability	1	0	
Health	0	Instability									
1	0										
Potential Health Effects Silicosis as a result of long term dust/powder exposure.											

## SECTION 4 — FIRST AID MEASURES

Skin Contact Flush with water, contact physician if irritation persists.
Eye Contact Flush with water, contact physician if irritation persists.
Inhalation Move to fresh air.
Ingestion N/A Do not ingest. If using the material, wash hands before eating.

## SECTION 5 — FIRE FIGHTING MEASURES

Flammable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	
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N/A Will not burn.		
Flashpoint (°C) and Method > 200 °C by ASTM D92	Upper Flammable Limit (% by volume) N/A – Will not burn	Lower Flammable Limit (% by volume) N/A – Will not burn
Autoignition Temperature (°C) Will not ignite	Explosion Data — Sensitivity to Impact Not explosive	Explosion Data — Sensitivity to Static Discharge Will not explode
Hazardous Combustion Products None. Material is not combustible.		
[NFPA]		

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures Use particulate mask to avoid inhalation of dust/powder.
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## SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment Avoid formations of dust and inhalation. Exposed skin may become irritated.
Storage Requirements No special storage requirements.

## SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits <input checked="" type="checkbox"/> ACGIH TLV A silica, crystalline as respirable dust <input type="checkbox"/> OSHA PEL Respirable quartz 250 mppcf/(%SiO <sub>2</sub> + 5) or 10 mg/m <sup>3</sup> /(%SiO <sub>2</sub> + 2) <input checked="" type="checkbox"/> Other (specify) NIOSH 0.05 mg/m <sup>3</sup>
Specific Engineering Controls (such as ventilation, enclosed process) Avoid formations of dust.
Personal Protective Equipment <input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input checked="" type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type Gloves can be general purpose and skin should not be exposed. Respirator selection is based on the dust amount in the air. Respirator that is recommended is the 95XQ Incidental Exposure con

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State <b>Report Number</b> <b>14-184-2251</b>	Odor and Appearance Fine grey-brown powder with no odor	Odor Threshold (ppm) N/A No odor	Page 4 of 5
Specific Gravity 1.443 g/cc	Vapor Density (air = 1) N/A Solid	Vapor Pressure (mmHg) 0	
Evaporation Rate N/A Solid – will not evaporate	Boiling Point (°C) Solid	Freezing Point (°C) Solid	
pH 9.1 S.U.	Coefficient of Water/Oil Distribution N/A Unavailable	[Solubility in Water] N/A Unavailable	

## SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, which ones?
Reactivity and under what conditions? Non-reactive to acid, base, or water.	
Hazardous Decomposition Products Will not decompose.	

## SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure Respiratory and eye irritation due to material abrasion.	
Effects of chronic exposure Prolonged exposure and inhalation has been associated to silicosis.	
Irritancy of Product Considerable to eyes and skin and mucous membranes.	
Skin sensitization Mild	Respiratory sensitization Considerable sensitizer
Carcinogenicity-IARC Listed	Carcinogenicity - ACGIH Not Listed
Reproductive toxicity Not Listed	Teratogenicity Not Listed
Embrototoxicity Not Listed	Mutagenicity Not Listed
Name of synergistic products/effects	

## SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity] Non toxic to water organisms – not soluble.
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## SECTION 13 — DISPOSAL CONSIDERATIONS

[Water Disposal] Can be placed in a sanitary landfill or used as a soil amendment.
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## SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information No special shipping information.		PIN
TDG Not listed	[DOT] Not listed	
[IMO] Not listed	[ICAO] Not listed	

## SECTION 15 — REGULATORY INFORMATION

<small>[GHS Classification]</small> Report Number 14-04-250 Not listed	<small>[OSHA]</small> Not listed	Page 5 of 5
<small>[SERA]</small> Not listed	<small>[TSCA]</small> Not listed	
<i>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.</i>		

## SECTION 16 — OTHER INFORMATION

This information hereby is furnished without warranty of any kind. Individual handling the product should only use this information as supplemental information to others gathered. The information used by the parties handling and using the product need to be aware of proper use and disposal of the material. Some of the material included in this MSDS was obtained from reference material about the product and not based on specific tests or analyses carried out by the laboratory.