

SECTION 1 – IDENTIFICATION OF SUBSTANCE AND COMPANY

Substance name	Goldcell MY Se20
Generic name	<i>Selenium Yeast</i>
Substance utilization	GOLDCELL MY Se20 is an inactive dry yeast containing high levels of organic selenium, a trace element essential for human metabolism. It is a primary grown <i>Saccharomyces Cerevisiae</i> of a specially selected strain. It is spray dried to fine free flowing powder of a light beige color. GOLDCELL MY Se20 is 100% natural and Non GMO.
Manufacturer	Açucareira Quatá S.A
Address	Fazenda Quatá – Quatá - São Paulo – Brasil - CEP: 19780-000
E-mail	<i>biorigin@biorigin.net</i>
Emergency telephone/Fax	Telephone: +55 (14) 3269-9200 Fax: +55 (14) 3269-9210

SECTION 2 – INFORMATION ABOUT THE INGREDIENTS

Generic name	Concentration	OSHA - PEL	ACGIH	CAS Number	EINECS Number	ABNT NBR10004:2004
<i>Selenium Yeast</i>	<i>Min. 2000 ppm</i>	<i>Not listed</i>	<i>Not listed</i>	<i>68876-77-7</i>	<i>-</i>	<i>Class II A – Not inert</i>

SECTION 3 – HAZARDS IDENTIFICATION

The product is not classified as dangerous.	
Inhalation	<i>High concentration of airborne dust may cause irritation of the nose, throat and respiratory tract.</i>
Ingestion	<i>None.</i>
Skin Contact	<i>It may cause irritation.</i>
Eye Contact	<i>It may cause irritation upon direct contact.</i>

SECTION 4 – FIRST AID PROCEDURES

Inhalation	<i>Remove individual to ventilated and not contaminated area.</i>
Ingestion	<i>If the victim is conscious, give him/her water.</i>
Skin Contact	<i>After long contact, wash the skin with soap and flush with plenty of cold running water.</i>
Eye Contact	<i>Flush with cold running water for 15 minutes. If irritation persists, look for medical assistance.</i>

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media	<i>Water sprayer, dry chemical and CO₂.</i>						
Flash Point	<i>Ignition temperature approx. 378° F (210° C).</i>						
Explosive Limits	<i>Lower and upper explosive limits not available.</i>						
Flammable Limits	<i>Lower and upper flammable limits not available.</i>						
Specific Hazards	<i>Extremely high concentration of airborne dust may result in an explosion hazard in the presence of an ignition source with enough energy for the first ignition.</i>						
Special Firemen Protective Equipments	<i>Goggles, gloves, respirators and waterproof boots should be worn.</i>						
Explosion Properties							
Product	Sieved fraction (µm)	MIE (mJ)	MIT (°C)	LIT (°C)	P_{max} (barg)	K_{st} (bar.m/sec)	Explosion Class
Yeast Powder	<38	30 to 100	460	No LIT	7.2	110	St1

SECTION 6 – MEASURES IN THE EVENT OF INCIDENTAL LEAKAGE

Personal Precautions	<i>None.</i>
Environment Precautions	<i>Contain the leak. Avoid discharging the product into water sources.</i>
Removal and Clean-up Methods	<i>Collect material into suitable container for disposal and wash surfaces with water. Vacuum or moisten with water before removal in order to minimize the dust formation during clean-up.</i>
Neutralization	<i>Not applicable.</i>

SECTION 7 – HANDLING AND STORAGE

Handling	<i>Observe the Good Manufacturing and Safety Practices. Avoid high concentration of airborne dust, especially in closed areas, and avoid the use of flames.</i>
Storage	<i>Store in dry and ventilated area, since humidity and big temperature variations may cause the clump formation in the product. Keep it away from chemicals and strong odors and never store it in direct contact with the floor or the wall. Keep the packaging closed, when not in use.</i>
Specific use	<i>Industrial utilization.</i>

SECTION 8 – CONTROL OF EXPOSURE / INDIVIDUAL PROTECTION

Exposure limit-values	<i>Not available.</i>
Respiratory Protection	<i>Respirators are recommended if excessive dust is created in the work environment.</i>
Hand Protection	<i>Gloves should be worn.</i>
Eye Protection	<i>Safety Glasses.</i>
Skin Protection	<i>Regular field clothes.</i>

SECTION 9 – PHYSICAL AND CHEMICAL DATA

General informations	
Aspect	<i>It is spray dried to fine free flowing powder of a light beige color.</i>
Smell	<i>Typical.</i>
Important health, safety and environmental	
pH	<i>5.0 – 7.5 (Solution 2%)</i>
Boiling Point (°C)	<i>Not applicable.</i>
Flashpoint (° C)	<i>Lower and upper flammable limits not available.</i>
Flammability (° C)	<i>Lower and upper flammable limits not available.</i>
Danger of explosion:	<i>Extremely high concentration of airborne dust may result in an explosion hazard in the presence of an ignition source with enough energy for the first ignition.</i>
Oxidizing properties:	<i>Ignition temperature approx. 378° F (210° C).</i>
Vapor Pressure (mm/Hg)	<i>Not applicable.</i>
Specific Density (g/l)	<i>400 - 600</i>
Hidrosolubility	<i>Readily soluble in water.</i>
Liposolubility	<i>Not applicable.</i>
Coefficient n-octanol/water.	<i>Not applicable.</i>
Viscosity	<i>Not applicable.</i>
Vapor Density	<i>Not applicable.</i>
Evaporation rate	<i>Not applicable.</i>

SECTION 10 – STABILITY AND REACTIVITY

Stability	<i>Stable when stored under proper conditions.</i>
Incompatibility	<i>Not known materials.</i>
Hazardous Decomposition Products	<i>Acrid smoke and fumes.</i>
Hazardous Polymerization	<i>It will not occur under normal conditions.</i>
Hazardous Reactions	<i>None.</i>

SECTION 11 - TOXICOLOGICAL INFORMATION

Lethal dosage 50/Lethal concentration 50	<i>Not available.</i>
Carcinogenicity	<i>Classified as non-carcinogen.</i>

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity	<i>Classified as non-ecotoxic.</i>
Mobility	<i>Fine powder of good fluidity.</i>
Persistence and degradability	<i>Not available.</i>
Bioaccumulative potential	<i>Not available.</i>

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal	<i>Solid waste: licensed landfill site. Liquid waste: treatment systems in order to reduce the organic load. (Consult the regulations of the local environment control organ.)</i>
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SECTION 14 – TRANSPORT INFORMATION

Transport	<i>Not regulated as hazardous material.</i>
ONU number	<i>Unclassified.</i>
Class	<i>Unclassified.</i>
Name of expedition	<i>Selenium Yeast - GOLDCELL MY Se 20</i>
Packing Group	<i>Multi walled paper bags with polyethylene liner.</i>
Marine pollutant	<i>Unclassified.</i>

SECTION 15 – REGULATORY INFORMATION

health, safety and environmental	<i>Not regulated as hazardous material. According to Directives 67/548/CEE, 1999/45/CE e 91/155/CEE.</i>
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SECTION 16 – ADDITIONAL INFORMATION

<i>The information in this data sheet is based in current data and reflects our best knowledge of the proper handling of this product under normal conditions and according to the specific application in the packaging and/or literature.</i>
