

Quality Technology International, Inc.	Safety Data Sheet	Total Pages: 5
	RumaQ™	May 1, 2022; Ver1

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

Product trade name / Identity: RumaQ™

Intended use: Animal feed, as an additive based on a probiotic and a prebiotic.

Restriction on use: Not for human use.

Details of the supplier of the safety data sheet

Corporate Information      Quality Technology International, Inc.  
1707 N. Randal Rd., Suite 300  
Elgin, IL 60123  
TEL: (847) 649-9300

## 2. Hazards Identification

Not a hazardous substance or preparation.

GHS Classification :

Physicochemical hazards :

Explosives	No classification
Flammable / Flammable gases	No classification
Flammable / Flammable aerosol	No classification
Combustion support / Oxidizing gases	No classification
Gases	No classification
Flammable liquids	No classification
Flammable solids	No classification
Self-reactive chemicals	No classification
Spontaneous combustion liquids	No classification
Spontaneous combustion solids	No classification
Self-heating chemicals	No classification
Chemicals which in contact with water emits flammable gases	No classification
Oxidizing liquids	No classification
Oxidizing solids	No classification
Organic peroxide	No classification
Metal corrosive substances	No classification

Toxicological health effects :

Acute toxicity (Oral)	No classification
Acute toxicity (Skin)	No classification
Acute toxicity (Inhalation: Gas)	No classification
Acute toxicity (Inhalation: Vapor)	No classification
Acute toxicity (Inhalation: Dust)	No classification
Acute toxicity (Inhalation: Mist)	No classification
Skin corrosive / Irritation	No classification
Serious eyes damage /Eyes irritation	No classification
Respiratory organs sensitization	No classification
Skin sensitization	No classification
Original generative cell variation	No classification
Cancer-causing	No classification
Reproduction toxicity	No classification
Specification target internal organs/systemic toxicity (single exposure)	No classification
Specification target internal organs/systemic toxicity (repeat exposure)	No classification
Absorption respiratory organs toxicity	No classification

Toxicological environment effects :

Aquatic environmental toxicity: acute	No classification
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Aquatic environmental toxicity: chronic  
Hazardous to the ozone layer

No classification  
No classification

GHS Label Elements :

Symbols/Pictograms :

Signal Word :

Hazardous information :

Not Applicable

Not Applicable

Not Applicable

### 3. Composition/information

Ingredients	Concentration	Chemical formula	CAS Number
Dried <i>Bacillus subtilis</i> fermentation product	~ 643 million cfu/g	-	-
Dried <i>Bacillus amyloliquefaciens</i> fermentation product	~ 643 million cfu/g	-	-
Dried <i>Bacillus coagulans</i> fermentation product	~ 214 million cfu/g	-	-
Yeast extract ( <i>Saccharomyces cerevisiae</i> )	>90%	-	-
Calcium carbonate	<1%	CaCO <sub>3</sub>	471-34-1
Sodium silico aluminate	<1%	AlNa <sub>6</sub> Si <sub>2</sub>	1344-00-9
Maltodextrins	<1%	C <sub>6</sub> nH <sub>(10n+2)</sub> O <sub>(5n+1)</sub>	9050-36-6
Mineral oil	<1%	-	-

### 4. First Aid Measures

First aid measures in general:

Inhalation:

If you feel ill, consult a doctor (if possible, show a label).

If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory difficulties seek medical attention immediately.

Skin contact:

Wash with plenty of soap and water. If skin irritation occurs, get medical assistance.

Eye contact:

Rinse eyes with water for several minutes as a precaution. Get medical assistance if irritation occurs.

Ingestion:

Wash out mouth with water. Do not induce vomiting unless directed by a medical professional. Seek medical assistance.

Other medical advice or treatment:

Treat symptomatically.

### 5. Fire Fighting Measures

Flammability/explosiveness:

Non-flammable, non-explosive.

Suitable extinguishing agents:

Water spray, dry chemical powder, water spray, extinguishing agents, foam extinguishing agents.

Hazardous decomposition products in case of fire:

Formation of toxic gases is possible during heating or fire.

Protective equipment for fire extinguishing:

During firefighting activities, wear appropriate protective equipment, including self-contained breathing apparatus, and full protective gear.

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## 6. Accidental release measures

Land spill: Spilled material may cause floor slippery. If material is spilled, seal off area, sweep or vacuum with minimum of dusting. Avoid high pressure rinsing. Place into suitable clean and dry container for disposal. Avoid inhaling dust particles. Dispose of waste in accordance with all applicable federal, state and local laws.

Water spill: Do not allow to enter sewers/surface or ground water.

### Personal Precautions, Protective Equipment, and Emergency Measures

First aid: Ventilate wetting areas.  
 Protective: Wear appropriate protective equipment when involved in a cleanup.  
 Environmental precautions: Avoid release to the environment.

### Containment and purification method and equipment

Purification method: The product is mechanically recovered.  
 Other information: Substances or solid residues shall be disposed of at certified facilities.

## 7. Handling and Storage

Handling  
 Safety Handling: Ensure adequate ventilation of the workplace. Use personal protective equipment, such as protective gloves, goggles and overalls.

Precautions: Do not eat, drink or smoke when using this product. Be sure to wash hands after product handling. Avoid breathing dust and creating dust.

Storage  
 Safe storage conditions: Store in a well-ventilated area. Store at room temperature or slightly cool and dry conditions. Keep container closed when not in use. Avoid contact with water and/or high temperature.

## 8. Exposure control/Personal protection

Equipment measures: Ensure adequate ventilation of the workplace.  
 Protection of breathing: If ventilation is inadequate, wear appropriate breathing apparatus.  
 Protection of the hands: Wear protective gloves.  
 Protection of the eyes: Wear safety glasses or goggles.  
 Personal protective equipment: Wear appropriate protective clothing.  
 Limitation and monitoring of environmental exposure: Avoid release to the environment.

## 9. Physical and Chemical Properties

Physical state:	Solid.
Appearance:	No data
Color:	Dark tan.
Smell:	No data
Odor threshold (mg/m <sup>3</sup> ):	No data
Odor threshold (ppm):	No data
pH:	No data
Melting point:	No data
Freezing point:	Not applicable
Boiling point:	Not applicable
Flash point:	Not applicable
Evaporation rate (butyl acetate = 1):	Not applicable
Combustibility (solid, gas):	Not applicable
Explosive range (Upper limit, Lower limit, I lg/-m3):	Not applicable

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Explosion limit (vol %):	Not applicable
Vapor pressure:	No data
Relative vapor density (20°C):	No data
Specific gravity (density):	No data
Specific gravity:	Not applicable
Solubility:	No data
n-octanol/water partition coefficient (Log Pow):	No data
Spontaneous ignition temperature:	Not applicable
Decomposition temperature:	No data
Viscosity (viscosity):	No data
Kinematic viscosity:	Not applicable
Solubility:	Moderately soluble in water.

## 10. Stability and reactivity

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage, or transportation.
Chemical stability:	Stable under normal conditions of use or storage.
Hazardous and Adverse Reactions:	Under normal conditions of use, no dangerous reactions are known.
Conditions to Avoid:	There is nothing under the recommended storage and handling conditions (see Section 7).
Hazardous decomposition products:	Under normal conditions of use and storage, no harmful degradation products are produced.
Incompatibilities	None known.

## 11. Toxicological Information

The material is non-toxic for laboratory and food animals.

Acute toxicity (oral):	No data
Acute toxicity (dermal):	No data
Acute toxicity (inhalation: gas):	No data
Acute toxicity (inhalation: vapor):	No data
Acute toxicity (inhalation: powder):	No data
Acute toxicity (inhalation: mist):	No data
Cutaneous thoracic irritation and cutaneous injury irritation:	No data
Serious eye damage or irritation:	No data
Skin-sensitizing:	No data
Respiratory sensitization:	No data
Germ cell mutagenic:	No data
Carcinogenicity:	No data
Reproductive toxicity:	No data
Specific target organ toxicity (single exposure):	No data
Specific target organ toxicity (repeated exposure):	No data
Aspiration toxicity:	No data

### Special remarks on toxic effects on humans

The product is not expected to cause any skin irritation upon direct single or repeated and prolonged contact. Exposure to the eyes may cause mild (minimal) eye irritation due to the particulate nature of the products. Inhalation of the products may cause respiratory irritation with coughing and shortness of breath due to the particulate nature of the products. Ingestion of the products is relatively non-toxic unless aspiration occurs or an excessive amount of the products is consumed.

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Ingestion of a large single dose or numerous small doses may cause gastrointestinal tract discomfort, abdominal cramps, vomiting, constipation or diarrhea.

## 12. Ecological Information

The prebiotic active ingredient is a component of naturally-occurring yeast micro-organisms and has no known adverse ecological effects. *Bacillus* is a naturally occurring bacterium and has no known adverse ecological effects.

Acute Aquatic Toxicity:	No data
Hazardous to the aquatic environment (long-term):	No data
Ecotoxicity:	No data
Persistence and degradability:	No data
Bioaccumulation:	No data
Mobility in soil:	No data
Hazardous to the ozone layer:	No data

## 13. Disposal consideration

Disposal method:	Discard the contents and containers in accordance with federal, state and local regulations. Do not dump into sewers, on the ground or into any body of water.
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## 14. Transport information

DOT Classification: Not a DOT controlled material (Unites States)  
Not a hazardous substance as defined in the Transportation Regulations.

## 15. Regulatory information

This product is regarded as non-toxic and is not considered dangerous.  
*The Bacillus bacteria and Saccharomyces cerevisiae* have been granted Generally Recognized as Safe (GRAS) status by the US Food and Drug Administration. Other components of the product have been approved by the FDA as safe.  
No other applicable law other than Feed safety Law.

## 16. Other information

Data sources: The data contained in this SDS may have been gathered from internal sources, raw material suppliers or from published literature.

Prepared by Quality Technology International, Inc.

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**End of safety data sheet**