



## MATERIAL SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL MSDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE  
USA: 1-423-780-2970)

1-800-424-9300 (OUTSIDE  
USA: 1-703-527-3887)

1-800-511-MSDS (OUTSIDE  
USA: 1-423-780-2347)

PRODUCT NAME: **QUANTUM QB BRITE**

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Supplier**

**Quantum Biochemical**  
**1400 Bluegrass Lakes Parkway ,**  
**Alpharetta, GA, 30004**  
**United States**

**Telephone: +17705215999**

**Telefax: +17705215959**

**Web: www.poospacare.com**

REVISION DATE:

10/22/2010

SUPERCEDES:

12/04/2007

MSDS Number:

000000012470

SYNONYMS:

CHEMICAL FAMILY:

None

DESCRIPTION / USE

None established

FORMULA:

None established

**Manufacturer**

**Advantis Technologies**  
**1400 Bluegrass Lakes Parkway**  
**Alpharetta, GA 30004**  
**United States of America**

### 2. HAZARDS IDENTIFICATION

OSHA Hazard  
Classification:

**Corrosive, Possible skin sensitizer, Oxidizer**

Routes of Entry:

Eyes Skin Inhalation Ingestion

Medical Conditions Aggravated:

Asthma, Respiratory disorders

Human Threshold Response Data

Odor Threshold                      Not established for product.

Irritation Threshold                Not established for product.

**Hazardous Materials Identification System / National Fire Protection Association Classifications**

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	3	0	0	
NFPA	3	0	0	OX

Immediate (Acute) Health Effects

Inhalation Toxicity:	May cause respiratory irritation.
Skin Toxicity:	Corrosive to skin
Eye Toxicity:	Corrosive. Burns can occur following exposure. Direct contact may cause impairment of vision, corneal damage and/or blindness. Rinsing of the eye should take place immediately.
Ingestion Toxicity:	Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration. Ingestion may cause severe damage to the gastrointestinal tract with the potential to cause perforation.
Acute Target Organ Toxicity:	Eyes, Skin, Respiratory Tract, Gastrointestinal tract

Prolonged (Chronic) Health Effects

Carcinogenicity:	This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.
Reproductive and Developmental Toxicity:	Not known or reported to cause reproductive or developmental toxicity.
Inhalation:	There are no known or reported effects from chronic exposure except for effects similar to those experienced from acute exposure.
Skin Contact:	There are no known or reported effects from chronic exposure except for effects (if any) similar to those experienced from acute exposure.
Ingestion:	There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.
Sensitization:	May cause allergic skin sensitization in some individuals.
Chronic Target Organ Toxicity:	None known
Supplemental Health Hazard Information :	No additional health information available.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

---

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
POTASSIUM BISULFATE	7646-93-7	
POTASSIUM PEROXYMONOSULFATE	10058-23-8	
POTASSIUM PEROXYDISULFATE	7727-21-1	
POTASSIUM SULFATE	7778-80-5	
MAGNESIUM CARBONATE	546-93-0	
Borax, 5 mole		

### 4. FIRST AID MEASURES

---

Inhalation:	IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. If not breathing, give artificial respiration. Call for medical assistance.
Skin Contact:	IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing comes in contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention.
Eye Contact:	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
Ingestion:	IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

---

Flammability Summary (OSHA): The product is not flammable., Not combustible., The substance or mixture is not classified as pyrophoric., Not explosive

### Flammable Properties

Fire / Explosion Hazards: Will not burn May intensify fire; oxidiser.  
Extinguishing Media: Water  
Fire Fighting Instructions: Use water spray to cool unopened containers. In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

---

Personal Protection for Emergency Situations: Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.

### Spill Mitigation Procedures

Air Release: Keep people away from and upwind of spill/leak.  
Water Release: If the product contaminates rivers and lakes or drains inform respective authorities.  
Land Release: Sweep up and shovel into suitable containers for disposal. Avoid creating dust.  
Additional Spill Information : Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas.

## 7. HANDLING AND STORAGE

---

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. If in eyes or on skin, rinse well with water. Avoid breathing dust.  
Storage: Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Storage of large masses of "OXONE" or blended "OXONE" should not exceed a 4 ft. (1.2m) cube.  
Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation is recommended if significant dusting occurs. Otherwise use general exhaust ventilation.

### Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible., A NIOSH approved air purifying respirator with dust/mist filter.

Skin Protection : Avoid contact with skin. Impervious gloves A full impervious suit is recommended if exposure is possible to a large portion of the body.

Eye Protection: Chemical resistant goggles must be worn. Face-shield

Protective Clothing Type: Impervious, Neoprene, Butyl rubber

General Protective Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

### Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
POTASSIUM PEROXYDISULFATE	7727-21-1	ACGIH	0.1 mg/m <sup>3</sup> TWA 1996 Adoption
MAGNESIUM CARBONATE	546-93-0	OSHA Z1	15 mg/m <sup>3</sup> TWA total dust
MAGNESIUM CARBONATE	546-93-0	OSHA Z1	5 mg/m <sup>3</sup> TWA respirable fraction

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid

Form: granular

Color: purple

Odor: none

Molecular Weight: None established

Specific Gravity : 1.2

pH : 20 °C

Boiling Point: no data available

Freezing Point: no data available

Melting Point: no data available

Density:  
Bulk Density: no data available  
Vapor Pressure: no data available  
Vapor Density: Not volatile  
Viscosity: not applicable no data available  
Solubility in Water: 250 g/l  
20 °C  
Partition coefficient n-octanol/water: Not applicable  
Evaporation Rate: not applicable  
Oxidizing: None established  
Volatiles, % by vol.: no data available  
VOC Content no data available  
HAP Content

## 10. STABILITY AND REACTIVITY

---

Stability and Reactivity Summary: Stable under normal conditions.  
Conditions to Avoid: Heat., Exposure to moisture.  
Chemical Incompatibility: Oxidizing agents, Heavy metal salts, Cyanides, Halides  
Hazardous Decomposition Products: Oxygen, Heat., Other hazardous decomposition products may be formed.  
Decomposition Temperature: No data

## 11. TOXICOLOGICAL INFORMATION

---

### Product Animal Toxicity

Oral LD50 value: Believed to be > 2,000 mg/kg

Dermal LD50 value: Believed to be > 2,000 mg/kg

Inhalation LC50 No data.

value:

Skin Irritation: Corrosive to skin

Eye Irritation: Corrosive to eyes

Skin Sensitization: Possible skin sensitizer based on animal tests

Subchronic / Chronic Toxicity: There are no known or reported effects from chronic exposure.

---

QUANTUM QB BRITE

REVISION DATE : 10/22/2010

Page 6 of 11

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Mutagenicity: Not known or reported to be mutagenic.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

## 12. ECOLOGICAL INFORMATION

Overview: There is no data available for this product.

## 13. DISPOSAL CONSIDERATIONS

**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.**

Waste Disposal Summary : If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. As a nonhazardous solid waste it should be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : not applicable

## 14. TRANSPORT INFORMATION

Land (US DOT): UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  
(MONOPERSULFATE COMPOUND) 8 II

Water (IMDG): UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.,  
(MONOPERSULFATE COMPOUND) 8 II

Air (IATA): UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.,  
(MONOPERSULFATE COMPOUND) 8 II

Emergency Response Guide Number: ERG # 154

Transportation Notes: Under specific circumstances, this product can ship under two transport exceptions, Limited Quantity or Consumer Commodity. See Bill of Lading for proper shipping description.

EMS: F-A, S-B

## 15. REGULATORY INFORMATION

---

### UNITED STATES:

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

### Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health	Immediate (Acute) Health Hazard
Physical	None

### Emergency Planning & Community Right to Know (40 CFR 355, App. A):

#### Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS_SAR302	TPQ (threshold planning quantity)	None established
------------	-----------------------------------	------------------

#### Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA	Reportable quantity	None established
ZUS_SAR302	Reportable quantity	None established

### Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS_SAR313	De minimis concentration	None established
------------	--------------------------	------------------

### Clean Air Act Toxic ARP Section 112r:

CAA 112R	None established
----------	------------------



**Clean Air Act Socmi:**

HON SOC None established

**Clean Air Act VOC Section 111:**

CAA 111 None established

**Clean Air Act Haz. Air Pollutants Section 112:**

ZUS\_CAAHAP None established

ZUS\_CAAHRP None established

CAA AP None established

**State Right-to-Know Regulations Status of Ingredients**
**Pennsylvania:**

CAS #	COMPONENT NAME
7727-21-1	POTASSIUM PEROXYDISULFATE

ZUSPA\_RTK

Pennsylvania: Hazardous substance list

1989-08-11

 PEROXYDISULFURIC ACID  $[(HO)S(O)_2]_2O_2$ , DIPOTASSIUM SALT

**New Jersey:**

CAS #	COMPONENT NAME
546-93-0	MAGNESIUM CARBONATE
7646-93-7	POTASSIUM BISULFATE
7727-21-1	POTASSIUM PEROXYDISULFATE

ZUSNJ\_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

MAGNESITE CARBONIC ACID, MAGNESIUM SALT (1:1)

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

 POTASSIUM HYDROGEN SULFATE POTASSIUM BISULFATE SULFURIC ACID,  
 MONOPOTASSIUM SALT

Special Health Hazard - Corrosive

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

POTASSIUM PERSULFATE PEROXYDISULFURIC ACID,  $[(HO)S(O)_2]_2O_2$ ,  
DIPOTASSIUM SALT

**Massachusetts:**

CAS #	COMPONENT NAME
546-93-0	MAGNESIUM CARBONATE
7727-21-1	POTASSIUM PEROXYDISULFATE

ZUSMA\_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1991-07-01

MAGNESITE DUST

massachusetts hazardous substance

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

POTASSIUM PERSULFATE

**California Proposition 65:**

CAS #	COMPONENT NAME
-------	----------------

ZUSCA\_P65

None established

**WHMIS Hazard Classification:**

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 1 Weight percent

1513

Potassium hydrogen sulfate

Ingredient Disclosure List (WHMIS)

1988-01-20

Threshold limits: 0.1 Weight percent

1252

PERSULFATE COMPOUNDS

## 16. OTHER INFORMATION

---

MSDS REVISION STATUS :

SECTIONS REVISED:

First formulated version in SAP.

Major References :

Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .