SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: 1-800-654-6911 (OUTSIDE

USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: USA: 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)

FOR ALL SDS QUESTIONS & REQUESTS, CALL: 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: QUANTUM QB BRITE

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

SupplierREVISION DATE:05/26/2015Quantum BiochemicalSUPERCEDES:12/04/2007

1400 Bluegrass Lakes Parkway ,

Alpharetta, GA, 30004 MSDS Number: 000000024385

SYNONYMS:
CHEMICAL FAMILY: None

Telephone: +17705215999
Telefax: +17705215959
Web: www.poolspacare.com

CHEMICAL FAMILET.

None established
None established

Manufacturer
Advantis Technologies
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004

United States of America

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing solids : Category 1

Skin corrosion : Category 1B

Serious eye damage : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity - : Category 3 (Respiratory system)

QUANTUM QB BRITE

REVISION DATE: 05/26/2015 Page 1 of 11

single exposure

GHS Label element

Hazard pictograms









Signal word Danger

Hazard statements H271 May cause fire or explosion; strong oxidiser.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child.

Prevention: Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials. P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe dust or mist.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P283 Wear fire/ flame resistant/ retardant clothing.

P285 In case of inadequate ventilation wear respiratory protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

QUANTUM QB BRITE

REVISION DATE: 05/26/2015 Page 2 of 11 P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME POTASSIUM PEROXYMONOSULFATE	<u>CAS #</u> 10058-23-8	<u>% RANGE</u> 35 - 45
POTASSIUM SULFATE	7778-80-5	23 - 33
POTASSIUM BISULFATE	7646-93-7	18 - 24
POTASSIUM PEROXYDISULFATE	7727-21-1	1 - 4
Sodium tetraborate pentahydrate	12179-04-3	1 - 4
MAGNESIUM CARBONATE	546-93-0	1 - 3

SECTION 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.

QUANTUM QB BRITE

REVISION DATE: 05/26/2015 Page 3 of 11

IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless Ingestion:

directed to do so by a physician. Never give anything by mouth to an unconscious

person.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or

explosive.

Flammable Properties

Fire / Explosion Hazards: Material will not ignite or 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.

SECTION 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.

SECTION 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.

Store in a cool, dry and well ventilated place. Isolate from Storage:

> 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.

Refer to Section 10, "Incompatible Materials." Incompatible Materials for Storage:

QUANTUM QB BRITE

REVISION DATE: 05/26/2015 Page 4 of 11 Empty Container Warning: Empty containers retain hazardous residue, dispose of accordingly.

SECTION 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 Ensure that eyewash stations and safety showers are close to the

Measures: workstation location.

Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
POTASSIUM PEROXYDISULFATE (7727-21-1)	TWA	0.1 mg/m3	ACGIH (02 2014)
[as persulfate]			
Sodium tetraborate pentahydrate (12179-04-3)	TWA	2 mg/m3	ACGIH (02 2014)
	STEL	6 mg/m3	ACGIH (02 2014)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid
Form granular
Color: purple
Odor: none

Molecular Weight: None established

pH: No data.

Boiling Point: no data available

Melting point/freezing

point

no data available

Bulk Density: ()

no data available

Vapor Pressure: no data available

Vapor Density: Not volatile

QUANTUM QB BRITE

REVISION DATE: 05/26/2015 Page 5 of 11

SAFETY DATA SHEET

Viscosity: Not applicable no data available

Solubility in Water: 250 g/l

68 °F (20 °C)

Partition coefficient n-

octanol/water:

Not applicable

Evaporation Rate: Not applicable Oxidizing: None established Nolatiles, % by vol.: no data available

VOC Content no data available This product does not contain any chemicals

listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

HAP Content

SECTION 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

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

POTASSIUM LD50 = 2,340 mg/kg Rat

BISULFATE

Sodium tetraborate LD50 3,200 - 3,400 mg/kg = Rat

pentahydrate

Component Animal Toxicology

Dermal LD50 value:

Sodium tetraborate LD50 > 2,000 mg/kg Rabbit

pentahydrate

Component Animal Toxicology

Inhalation LC50 value:

Sodium tetraborate Inhalation LC50 4 h > 2 mg/l Rat

pentahydrate

Product Animal Toxicity

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

QUANTUM QB BRITE

REVISION DATE: 05/26/2015 Page 6 of 11

SAFETY DATA SHEET

No data. Inhalation LC50

value:

Skin Irritation: Corrosive to skin Eye Irritation: Corrosive to eyes

Skin Sensitization: Possible skin sensitizer based on animal tests

Subchronic / Chronic

There are no known or reported effects from chronic exposure.

Toxicity:

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

Developmental Toxicity:

Sodium tetraborate pentahydrate Boric acid has been evaluated in several laboratory

> animal species and in only one species was found to cause fetotoxicity at maternally toxic doses. Based on this data, this product may have the potential to cause

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.

SECTION 12. ECOLOGICAL INFORMATION

Overview: There is no data available for this product.

Ecological Toxicity Values for: POTASSIUM SULFATE

Lepomis macrochirus (Bluegill -96 hr. EC50 (cell growth inhibition) 96 h LC50 = 3,550 mg/l

sunfish)

Pimephales promelas (fathead 96 h LC50 = 680 mg/l

minnow)

Daphnia magna (Water flea) - 48 h EC50= 720 mg/l

Ecological Toxicity Values for: POTASSIUM PEROXYDISULFATE

Cyprinus carpio (Carp) -48 h LC50 = 1.360 mg/l48 h LC50 = 234 mg/l

Oncorhynchus mykiss (rainbow

trout)

Poecilia reticulata (guppy) 48 h LC50 = 845 mg/lDaphnia magna (Water flea) -48 h LC50= 92 mg/l

Ecological Toxicity Values for: Sodium tetraborate pentahydrate

Rainbow trout (embryo - larval -24 day LC50 (chronic toxicity) = 88 mg/l

stage)

Daphnia magna, -24 h EC50= 242 mg/l

QUANTUM QB BRITE

REVISION DATE: 05/26/2015 Page 7 of 11 Green algae (Scenedesmus - 96 h EC10 = 24 mg/l subspicatus)

SECTION 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.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3260

Description of the goods : Corrosive solid, acidic, inorganic, n.o.s.

: (Potassium hydrogenperoxomonosulphate)

Class : 8
Packing group : II
Labels : 8
Emergency Response : 154

Guidebook Number

TDG

UN number : 3260

Description of the goods : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

(Potassium hydrogenperoxomonosulphate)

Class : 8
Packing group : II
Labels : 8

IATA

UN number : 3260

Description of the goods : Corrosive solid, acidic, inorganic, n.o.s.

(Potassium hydrogenperoxomonosulphate)

Class : 8

QUANTUM QB BRITE

REVISION DATE: 05/26/2015 Page 8 of 11

Packing group : 11 Labels : 8 Packing instruction (cargo : 863

aircraft)

Packing instruction : 859

(passenger aircraft)

Packing instruction : Y844

(passenger aircraft)

IMDG-CODE

UN number : 3260

Description of the goods : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

(Potassium hydrogenperoxomonosulphate)

Class : 8 Packing group : 11 Labels : 8 : F-A EmS Number 1 EmS Number 2 : S-B

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

QUANTUM QB BRITE

REVISION DATE: 05/26/2015

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Dipotassium	7727-21-1
peroxodisulphate	
Sodium tetraborate	12179-04-3
pentahydrate	
Magnesium carbonate	546-93-0

Pennsylvania Right To Know

Potassium	10058-23-8
hydrogenperoxomonosulph ate	
Potassium sulfate	7778-80-5
Potassium	7646-93-7
hydrogensulphate	
Dipotassium	7727-21-1
peroxodisulphate Sodium tetraborate pentahydrate	12179-04-3
' '	

New Jersey Right To Know

Potassium	10058-23-8
hydrogenperoxomonosulph	
ate	
Potassium sulfate	7778-80-5
Potassium	7646-93-7
hydrogensulphate	
Dipotassium	7727-21-1
peroxodisulphate	
Sodium tetraborate	12179-04-3
pentahydrate	
Magnesium carbonate	546-93-0

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

QUANTUM QB BRITE

REVISION DATE: 05/26/2015 Page 10 of 11

The components of this product are reported in the following inventories:

TSCA : The components of this product are listed on the TSCA

Inventory of Existing Chemical Substances.

: Borax, 5 mole : Nalco 9908

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

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.

QUANTUM QB BRITE

REVISION DATE: 05/26/2015 Page 11 of 11