Safety Data Sheet

Issue Date: 17-Apr-2017 **Revision Date:** 25-Apr-2017 **Version** 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

SDS # ABT-001-EU
Product Name Biotab7

Contains Sodium percarbonate, Sodium Chlorite, Sodium bisulfate

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use: Biocide, Medical-Grade Disinfectant, Deodorizer, Safe for Food Contact, Fungicide, Slimicide, Algaecide, Mildewcide.

1.3. Details of the Supplier of the Safety Data Sheet

Supplier
Advanced Biocide Technologies Inc.
599 Sawgrass Corporate Parkway
Sunrise, FL 33325

For further information, please contact

Contact Point Phone: 1-480-324-6413
Email Address info@advancedbiocide.com

1.4. Emergency telephone number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)
Oxidising Solids	Category 1 - (H271)

2.2. Label Elements

Product Identifier
Contains Sodium percarbonate, Sodium Chlorite, Sodium bisulfate

Signal Word
Danger

Hazard statements
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H314 - Causes severe skin burns and eye damage
H373 - May cause damage to organs through prolonged or repeated exposure
H271 - May cause fire or explosion; strong oxidizer
H400 - Very toxic to aquatic life

Precautionary Statements - EU (§28, 1272/2008)
P405 - Store locked up
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P363 - Wash contaminated clothing before reuse
P280 - Wear protective gloves and eye/face protection
P271 - Use only outdoors or in a well-ventilated area
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P501 - Dispose of contents/ container to an approved waste disposal plant
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P330 - Rinse mouth
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P310 - Immediately call a POISON CENTER or doctor/physician
P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P220 - Keep/Store away from clothing/ combustible materials
P221 - Take any precaution to avoid mixing with combustibles
P283 - Wear fire/flame resistant/retardant clothing
P371 + P380 + P375 - In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion
P370 + P378 - In case of fire: Use appropriate media to extinguish
P273 - Avoid release to the environment
P391 - Collect spillage

2.3. Other Hazards
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 MIXTURES

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Sodium bisulfate	Present	7681-38-1	39	Eye Dam. 1 (H318) Acute Tox.4 (H302) Skin Corr. 1B (H314)	Not determined
Sodium Chlorite	Present	7758-19-2	25	Ox. Sol. 1 (H271) Acute Aquat. Tox. 1 (H400)	Not determined
Silicon dioxide	Present	7631-86-9	1	Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT RE 2 (H373)	Not determined

Full text of H- and EUH-phrases: see section 16
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General Advice Never give anything by mouth to an unconscious person. When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye Contact If in eyes, rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin Contact If on skin, immediately flush with plenty of water for at least 60 minutes. Wash contaminated clothing before reuse. Immediately call a poison center or doctor/physician.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Ingestion IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms Causes severe skin burns and eye damage. Irritation and corrosive burns to mouth, throat, and stomach.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire.

5.2. Special Hazards Arising from the Substance or Mixture

May intensify fire; oxidizer. Thermal decomposition can lead to release of irritating and toxic gases and vapours. Containers may explode when heated.

Hazardous Combustion Products Sulphur oxides. Halogenated compounds. Chlorine gas. Thermal decomposition generates corrosive vapors.

5.3. Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary. Use personal protective equipment as required. Do not release runoff from fire control methods to sewers or waterways. Evacuate area and fight fire from a safe distance.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions
Use personal protective equipment as required.

For Emergency Responders
Use personal protection recommended in Section 8.

6.2. Environmental Precautions
See Section 12 for additional Ecological Information. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Ventilate area of leak or spill.

Methods for Clean-Up Use explosion proof equipment. Carefully sweep, scoop or vacuum and place in suitable container. Avoid generating dust. If possible, complete cleanup on a dry basis. Use non-sparking hand tools and explosion-proof electrical equipment. Notify and consult with proper regulatory authorities.

6.4. Reference to Other Sections
See Section 13: DISPOSAL CONSIDERATIONS.

Section 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Advice on Safe Handling
Ensure adequate ventilation, especially in confined areas. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling before eating, drinking, smoking, or using toilet facilities. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Since empty container retains residue, follow all label warnings even after container is empty.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions
Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from direct sunlight. Store locked up. Keep/store only in original container. Protect from moisture.

7.3. Specific End Use(s)

Specific Use(s)
Medical Grade Disinfectant, Deodorant, Cleaner, Sanitizer; For professional use only.

Risk Management Methods (RMM)
The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Exposure Limits .

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Silicon dioxide 7631-86-9	-	STEL: 18 mg/m^3 STEL: 7.2 mg/m^3 TWA: 6 mg/m^3 TWA: 2.4 mg/m^3	-	-	TWA: 4 mg/m^3

Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Silicon dioxide 7631-86-9	-	-	-	TWA: 5 mg/m^3	-
Chemical Name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
Silicon dioxide 7631-86-9	TWA: 4 mg/m^3	TWA: 4 mg/m^3	-	TWA: 1.5 mg/m^3 STEL: 1.5 mg/m^3	TWA: 6 mg/m^3 TWA: 2.4 mg/m^3 STEL: 18 mg/m^3 STEL: 7.2 mg/m^3

8.2. Exposure Controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

Personal Protective Equipment

Eye/Face Protection Chemical safety goggles/face shield.

Hand Protection Wear protective gloves.

Skin and Body Protection Suitable protective clothing.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical state Solid

Appearance White tablet

Colour White

Odour Slight chlorine

Odour Threshold Not determined

Property	Values	Remarks • Method
pH	In tablet form: pH is 7-8 At 25 ° C, 1% suspension in water: pH of 2.30	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limits in Air		
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapour Pressure	Not determined	
Vapour Density	Not determined	
Relative Density	2.21 g/mL (18.47 lb/gal) @ 25 ° C	
Water Solubility	Not determined	
Solubility(ies)	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidising Properties	Not determined	

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive under normal conditions.

10.2. Chemical stability

Fire Hazard. Strong oxidizer. Contact with other materials, especially flammable and combustibles may cause fire or explosion. Greatly accelerates the rate of burning in other materials.

10.3. Possibility of Hazardous Reactions

Hazardous Polymerisation
Hazardous polymerisation does not occur.

Possibility of Hazardous Reactions
None under normal processing.

10.4. Conditions to Avoid

Direct sunlight. Extreme temperatures. Avoid heat, sparks, open flames and other ignition sources. Avoid contact with combustible materials. Incompatible Materials.

10.5. Incompatible Materials

Strong acids. Alkalis. Reducing agents. Combustible/flammable material. Organic solvents. Moisture.

10.6. Hazardous Decomposition Products

None known based on information supplied.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity

Product Information

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Inhalation	Harmful if inhaled.
Eye Contact	Causes severe eye damage.
Skin Contact	Harmful in contact with skin. Causes severe skin burns.
Ingestion	Harmful if swallowed.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	587.00 mg/kg
ATEmix (dermal)	217.00 mg/kg
ATEmix (inhalation-dust/mist)	0.43 mg/L

Unknown Acute Toxicity

78% of the mixture consists of ingredient(s) of unknown toxicity.
10 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
49 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
78 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
78 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
52 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium bisulfate	= 2490 mg/kg (Rat)		
Sodium Chlorite	= 165 mg/kg (Rat)	= 107.2 mg/kg (Rabbit)	= 230 mg/m^3 (Rat) 4 h
Sodium percarbonate	= 1034 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
Silicon dioxide	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h

Skin corrosion/irritation Causes severe skin burns.

Serious eye damage/eye irritation Causes severe eye damage.

Sensitisation Not classified.
Germ cell mutagenicity Not classified.

Carcinogenicity Not classified.

Reproductive toxicity Not classified.

STOT - single exposure Not classified.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not classified.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Very toxic to aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium bisulfate			190: 48 h Daphnia magna mg/L EC50
Sodium Chlorite		100 - 500: 96 h Brachydanio rerio mg/L LC50 static 100: 96 h Lepomis macrochirus mg/L LC50 static 100: 96 h Oncorhynchus mykiss mg/L LC50 static	0.026: 48 h Daphnia magna mg/L EC50 0.25 - 0.33: 48 h Daphnia magna mg/L EC50 Flow through 0.012 - 0.018: 48 h Daphnia magna mg/L EC50 Static
Silicon dioxide	440: 72 h Pseudokirchneriella subcapitata mg/L EC50	5000: 96 h Brachydanio rerio mg/L LC50 static	7600: 48 h Ceriodaphnia dubia mg/L EC50

12.2. Persistence and Degradability

Not determined.

12.3. Bioaccumulative Potential

Not determined.

12.4. Mobility in Soil

Mobility

Not determined.

12.5. Results of PBT and vPvB Assessment

Not determined.

12.6. Other Adverse Effects

Not determined.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste from Residues / Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN/ID No	UN3085
14.2 Proper Shipping Name	OXIDIZING SOLID, CORROSIVE, N.O.S. (SODIUM CHLORITE)
14.3 Hazard Class	5.1
Subsidiary Hazard Class	8
14.4 Packing Group	II
14.5 Marine Pollutant	This material meets the definition of a marine pollutant
Environmental hazard	Yes

RID

14.1 UN/ID No	UN3085
14.2 Proper Shipping Name	OXIDIZING SOLID, CORROSIVE, N.O.S. (SODIUM CHLORITE)
14.3 Hazard Class	5.1, 8
14.4 Packing Group	II
14.5 Environmental hazard	Yes

ADR

14.1 UN/ID No	UN3085
14.2 Proper Shipping Name	OXIDIZING SOLID, CORROSIVE, N.O.S. (SODIUM CHLORITE)
14.3 Hazard Class	5.1, 8
14.4 Packing Group	II
14.5 Environmental hazard	Yes

IATA

14.1 UN/ID No	UN3085
14.2 Proper Shipping Name	OXIDIZING SOLID, CORROSIVE, N.O.S. (SODIUM CHLORITE)
14.3 Hazard Class	5.1
Subsidiary Hazard Class	8
14.4 Packing Group	II
14.5 Environmental hazard	Yes

Section 15: REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

France

Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number	Title
Silicon dioxide 7631-86-9	RG 25	

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories

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Component	TSCA	DSL/NDSL	EINECS/ELINCS	PICCS	ENCS	IECSC	AICS	KECL
Sodium bisulfate 7681-38-1 (39)	X	X	X	X	Present	X	X	Present
Sodium Chlorite 7758-19-2 (25)	X	X	X	X	Present	X	X	Present
Silicon dioxide 7631-86-9 (1)	X	X	X	X	Present	X	X	Present

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under section 3

H318 - Causes serious eye damage
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H271 - May cause fire or explosion; strong oxidizer
H400 - Very toxic to aquatic life
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H373 - May cause damage to organs through prolonged or repeated exposure

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification Procedure

Calculation method

Issue Date: 17-Apr-2017
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Revision Note: New format.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Regulation (EU) No. 453/2010

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet