

Material Safety Data Sheet

Spa Synergy® Initiator

Version: 1.0

Revision Date: 04/12/2010

Print Date: 01/17/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *Spa Synergy® Initiator*
Product Use Description: **Recreational Water Product**

Chemical nature: Inorganic salt

Company: Asepsis, Inc.
HYDROTECH POOL PRODUCTS
P.O. Box 1788
Suwanee, GA
30024-0973

Hydrotech Chemical Corp.
PO Box 10, Station D
Scarborough, ON
M1R 4Y7

Emergency telephone: CANUTEC: (24 hours) 613-996-6666 (call collect)

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department
(US) +1 866-430-2775

+011-886-2-2712-5668 MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Warning

Form: granules Colour: white Odour: odourless

:

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Hazard Summary

Harmful if swallowed.
May cause respiratory tract irritation.
Avoid breathing dust or vapor.
Do not get in eyes, on skin, or on clothing.

WHMIS Classification : D2A: Very Toxic Material Causing Other Toxic Effects

Potential Health Effects

Primary Routes of Entry : Inhalation
Ingestion

Inhalation : May cause respiratory tract irritation.

Skin : Not expected to cause skin irritation under normal use conditions.

Eyes : This product is not expected to cause eye irritation.

Ingestion : Harmful if swallowed.

Chronic Exposure : This product contains a boron compound. This boron compound when fed to test animals at very high doses, has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to man.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Weight percent
boric acid	10043-35-3	100 %

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SECTION 4. FIRST AID MEASURES

First aid procedures

- General advice : For advice, contact a Poisons Information Centre (Phone: Australia 131 126 or New Zealand 0800 764 766) or a doctor at once.
- Inhalation : Remove to fresh air.
Call a physician if irritation develops or persists.
- Skin contact : Rinse immediately with plenty of water for at least 15 minutes.
Call a physician if irritation develops or persists.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
Call a physician if irritation develops or persists.
- Ingestion : Call a physician or poison control centre immediately.
If swallowed, DO NOT induce vomiting.
Drink 1 or 2 glasses of water.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

- Flash point : Remarks: Non-Flammable

Fire fighting

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : There are no unusual fire and explosion hazards known.

Protective equipment and precautions for firefighters

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Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for cleaning up : Using appropriate protective clothing and safety equipment, contain spilled material.
Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal.

Additional advice : Treat recovered material as described in the section "Disposal considerations". Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Avoid contact with skin, eyes and clothing.
Avoid breathing dust.
Mix only with water.
Do not mix with other chemicals.
Use only clean and dry utensils.
Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco.
Do not handle until all safety precautions have been read and understood.

Storage

Requirements for storage areas and containers : Keep this product dry in its original container.
Keep tightly closed in a dry, cool and well-ventilated place.

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Keep out of reach of children.
Keep away from animals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	Further information
	TWAEV CA ON OEL 2005-12-17	2 mg/m3	
	STEV CA ON OEL 2005-12-17	6 mg/m3	
	TWA CA BC OEL 2006-11-29	2 mg/m3	
	STEL CA BC OEL 2006-11-29	6 mg/m3	

Engineering measures

Engineering measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Use with adequate ventilation.

Personal protective equipment

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- Eye protection : Safety glasses with side-shields
not required under normal use
- Hand protection : For prolonged or repeated contact use protective gloves.
Wear rubber gloves.
not required under normal use
- Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2
requirements must be followed whenever workplace conditions warrant a
respirator's use.
- Hygiene measures : Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form : granules
- Colour : white
- Odour : odourless

Safety data

- Flash point : Note: Non-Flammable
- pH : 5.1
Note: 1% Solution
- Boiling point : 339.6 °F (170.9 °C)
- Boiling point/boiling range : Note: not applicable
- Vapour pressure : 20 hPa (2,000 mmHg)
Note: Negligible

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Density : Note: Not Available

Water solubility : Note: soluble

Relative vapour density : Note: Not Available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: Moisture/high humidity.

Materials to avoid : Remarks: Reducing agents
Alkalis.
Other chemicals

Hazardous decomposition products : Note: Oxides of boron

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 3,500 - 4,100 mg/kg
Species: rat

Acute inhalation toxicity : LC50: > 2.0 mg/l
Species: rat

Acute dermal toxicity : > 2,000 mg/kg
Species: rabbit

Skin irritation : Remarks: Non-irritating to skin.

Eye irritation : Remarks: Mildly irritating to eyes (rabbit).
No adverse effects are expected under normal conditions of use.

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Sensitisation

boric acid : Remarks: Did not cause sensitization on laboratory animals.

Toxicology Assessment

CMR effects : Reproductive toxicity:
This product contains a boron compound. This boron compound when fed to test animals at very high doses, has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to man.

12. ECOLOGICAL INFORMATION

Further information on ecology

Additional ecological information : May be toxic to fish.
May be toxic to aquatic organisms.
Do not allow material to contaminate ground water system.
Do not flush into surface water or sanitary sewer system.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : In accordance with local and national regulations.
Contaminated packaging : Do not re-use empty containers.
Rinse thoroughly before discarding in trash.
Offer rinsed packaging material to local recycling facilities.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

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TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : D2A

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

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

TSCA

Note: Listed

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Ce produit a été classé selon les critères de risque du RPC et la FS contient toutes les informations exigées parle RPC.

Ce produit a été classé selon les critères de risque du RPC et la FDS contient toutes les informations exigées par le RPC.

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SECTION 16. OTHER INFORMATION

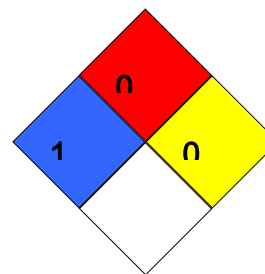
Further information

HMIS Classification

: Health hazard: 1
Flammability: 0
Physical hazards: 0
PPI: Ask supervisor or safety specialist for handling instructions

NFPA Classification

: Health hazard: 1
Fire Hazard: 0
Reactivity Hazard: 0



Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
<u>Mexico:</u>		+52 555 004 87 63

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.

Material Safety Data Sheet

Spa Synergy® Clear

Version: 1.4

Revision Date: 12/27/2010

Print Date: 01/17/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *Spa Synergy® Clear*
Product Use Description: Recreational Water Product
Synonyms: Shock-pool product
Chemical nature: Chlorinated Isocyanurates
Company: Asepsis, Inc.
HYDROTECH POOL PRODUCTS
P.O. Box 1788
Suwanee, GA
30024-0973
Telephone: (800) 959-7946
Hydrotech Chemical Corp.
PO Box 10
Scarborough, ON
M1R 4Y7

Telephone: 888-645-7946

Emergency telephone number:

CANUTEC: (24 hours) 613-996-6666 (call collect)

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by:

Product Safety Department
(US) +1 866-430-2775

+011-886-2-2712-5668 MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Danger

Form: granules Colour: blue Odour: Chlorine

Hazard Summary

: Corrosive
Oxidizer
Causes serious eye damage.
Harmful if swallowed.
Harmful if absorbed through skin.
Avoid breathing dust or vapor.

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May be harmful if inhaled.
Causes skin irritation.
May cause sensitization by skin contact.
Do not get in eyes, on skin, or on clothing.

WHMIS Classification : E: Corrosive Material
C: Oxidizing Material
D2B: Toxic Material Causing Other Toxic Effects

Potential Health Effects

Primary Routes of Entry : Skin contact
Eye contact
Inhalation
Ingestion

Aggravated Medical Condition : Respiratory disorders
Skin disorders

Inhalation : Causes respiratory tract irritation.

Skin : Causes skin irritation.
On contact with moisture, this material readily hydrolyzes to acid which may result in burns if not promptly removed.
May cause allergic skin reaction.

Eyes : Causes serious eye damage.

Ingestion : Harmful if swallowed.

Chronic Exposure : This product contains a boron compound. This boron compound when fed to test animals at very high doses, has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to man.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Weight percent
Sodium Dichloro-S-Triazinetrione	2893-78-9	58.2 %
sodium persulfate	7775-27-1	15 - 25 %
aluminium sulfate	10043-01-3	5 - 15 %
Boron salt		5 - 15 %

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HMIRC Information

HMIRC Number: 7784

Effective Date: 01/18/2010

SECTION 4. FIRST AID MEASURES

First aid procedures

- Inhalation : Remove to fresh air.
If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
Call a POISON CENTER or doctor/ physician.
- Skin contact : Remove contaminated clothing and shoes.
Rinse immediately with plenty of water for at least 30 minutes.
Call a POISON CENTER or doctor/ physician.
- Eye contact : Rinse immediately with plenty of water for at least 30 minutes.
Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
Call a POISON CENTER or doctor/ physician.
- Ingestion : Call a physician or poison control centre immediately.
Have person sip a glass of water if able to swallow.
DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Do not give anything by mouth to a convulsing or unconscious person.

Notes to physician

- Treatment : Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

- Flash point : Remarks: not applicable

Fire fighting

- Suitable extinguishing media : Flood with large volumes of water.
- Unsuitable extinguishing media : ABC powder
Dry powder
Risk of violent reaction.
- Further information : When ignited, will burn with the evolution of noxious chlorine containing gases.
Do not let fire burn.

Protective equipment and precautions for firefighters

- Specific hazards during fire : Under extreme heat (greater than 400F), this product will evolve noxious chlorine

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fighting

containing gases.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for cleaning up : Clean-up methods - large spillage
Using appropriate protective clothing and safety equipment, contain spilled material.
Do not add water to spilled material.
Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal.
Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.
Clean-up methods - small spillage
In case of spills, scoop up and place product in pool or spa water, then flood spilled area with large volumes of water.

Additional advice : Do not use floor sweeping compounds to clean up spills.
Do not transport wet or damp material.
Treat recovered material as described in the section "Disposal considerations".
Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Avoid contact with skin, eyes and clothing.
Avoid breathing dust.
Avoid breathing vapors.
Contains a strong oxidizing agent.
Do not mix with other chemicals.
Mix only with water.
Never add water to this product.
Always add product to large quantities of water.
Use only clean and dry utensils.
Do not add this product to any dispensing devices containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion.
Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.
In case of contamination or decomposition, do not reseal container.
Flood with large volumes of water.
Wash hands thoroughly with soap and water after handling and before eating,

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drinking or using tobacco.
Do not handle until all safety precautions have been read and understood.

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.
For bags: Store dry product in its original unopened bag until use. For partially used bags, fold over top of bag and secure with adhesive tape.
For bottles: Store dry product in original tightly closed container when not in use.
Keep out of reach of children.
Keep away from animals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	<u>Further information</u>
sodium persulfate 7775-27-1	TWAEV CA ON OEL 2005-12-17	0.1 mg/m3	
	TWA CA AB OEL 2009-04-30	0.1 mg/m3	
Boron salt	TWA CA AB OEL 2009-04-30	1 mg/m3	
	TWAEV CA QC OEL 2006-12-29	1 mg/m3	
	TWAEV CA ON OEL 2005-12-17	2 mg/m3	
	STEV CA ON OEL 2005-12-17	6 mg/m3	
	TWA CA BC OEL	2 mg/m3	

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	2006-11-29		
	STEL CA BC OEL 2006-11-29	6 mg/m3	
	STEL CA AB OEL 2009-04-30	3 ppm	

Engineering measures

Engineering measures : Use with adequate ventilation.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection : Wear rubber gloves.

Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hygiene measures : Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : granules

Colour : blue

Odour : Chlorine

Safety data

Flash point : Note: not applicable

pH : 5 - 5.5
Note: 1% Solution

Melting point/range : 522 °F (272 °C)

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Boiling point/boiling range : Note: not applicable
Vapour pressure : Note: no data available
Density : 1.0 g/cm³
Water solubility : 250 g/l
Relative vapour density : Note: Not Available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.
Poor ventilation.
Contamination
Moisture/high humidity.

Materials to avoid : Remarks: Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; other swimming pool/spa chemicals in their concentrated form; alkalis. Avoid contact with all other chemicals.

Hazardous decomposition products : Note: Chlorine containing gases can be produced.

Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 599 mg/kg
Species: rat

: LD50: 862 mg/kg
Species: rat

Acute inhalation toxicity
Sodium Dichloro-S-
Triazinetrione : LC50: 0.27 - 1.17 mg/l
Exposure time: 4 h
Species: rat

Boron salt : LC50: 0.27 - 1.17 mg/l

Acute dermal toxicity : LD50: ca. 5,000 mg/kg
Species: rat

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Skin irritation : Remarks: Irritating to skin.

Eye irritation : Remarks: Corrosive - causes irreversible eye damage.

Sensitisation : Remarks: Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Toxicology Assessment

CMR effects : Mutagenicity:
No mutagenic data are available for the product, although aluminum sulfate, a component of this product, has been shown to cause mutagenic effects in the mammalian chromosomal aberration test in human lymphocytes, but is not mutagenic in other in vitro tests. There is no indication that aluminum sulfate is carcinogenic or affects fertility. When this product is used according to label directions, the aluminum sulfate in this product does not present a practical health risk. (EN)

12. ECOLOGICAL INFORMATION

Toxicity to fish
sodium persulfate : LC50: 771 mg/l
Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill)
static test

aluminium sulfate : LC50: 37 mg/l
Exposure time: 96 h

Species: Gambusia affinis (Mosquito fish)
static test

LC50: 33.9 mg/l
Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)
flow-through test

Toxicity to daphnia and other aquatic invertebrates.
sodium persulfate : EC50: 133 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

aluminium sulfate : LC50: ca. 6.57 mg/l
Exposure time: 48 h

Boron salt : > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

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Toxicity to algae
Boron salt : > 100 mg/l
Exposure time: 72 h
Species: Algae

Bioaccumulation
aluminium sulfate : Remarks:
Bioaccumulation is unlikely.

Further information on ecology

Additional ecological
information : Toxic to fish.
Toxic to aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, provincial and local regulations.
Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.
Contact with incompatible materials could cause a reaction or fire.

Contaminated packaging : Do not re-use empty containers.
Rinse thoroughly before discarding in trash.
Offer rinsed packaging material to local recycling facilities.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

UN number : 1759
Description of the goods : CORROSIVE SOLID, N.O.S.
(SODIUM DICHLORO-S-TRIAZINETRIONE)
(SODIUM DICHLORO-S-TRIAZINETRIONE)
Class : 8
Packing group : II

IATA

UN number : 1759
Description of the goods : Corrosive solid, n.o.s.
(SODIUM DICHLORO-S-TRIAZINETRIONE)

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Class : 8
Packing group : II
(SODIUM DICHLORO-S-TRIAZINETRIONE)

IMDG

UN number : 1759
Description of the goods : CORROSIVE SOLID, N.O.S.
(SODIUM DICHLORO-S-TRIAZINETRIONE)
(SODIUM DICHLORO-S-TRIAZINETRIONE)

Class : 8
Packing group : II
EmS Letter 1 : F-A
EmS Letter 2 : S-B

Marine pollutant : yes
SODIUM DICHLORO-S-TRIAZINETRIONE

Not recommended for shipment by air
Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG
by road and/or rail.

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : E
C
D2B

HMIRC Information

HMIRC Number: 7784

Effective Date: 01/18/2010

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

TSCA

Note: Listed

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This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

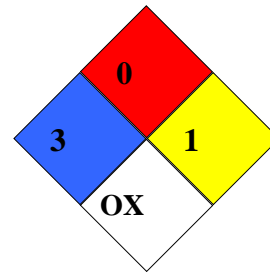
Ce produit a été classé selon les critères de risque du RPC et la FS contient toutes les informations exigées par le RPC.
Ce produit a été classé selon les critères de risque du RPC et la FDS contient toutes les informations exigées par le RPC.

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 3
Flammability: 0
Physical hazards: 1
PPI: Ask supervisor or safety specialist for handling instructions

NFPA Classification : Health hazard: 3
Fire Hazard: 0
Reactivity Hazard: 1
Specific hazards: OX Class 1
Oxidizer.



Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
<u>Mexico:</u>		+52 555 004 87 63

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Material Safety Data Sheet

SPA SYNERGY TABS

Version: 1.2

Revision Date: 08/03/2010

Print Date: 01/17/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *SPA SYNERGY TABS*
Product Use Description: Recreational Water Product

Registration number: 26666

Company: Asepsis, Inc.
HYDROTECH POOL PRODUCTS
P.O. Box 1788
Suwanee, GA
30024-0973

Telephone: (800) 959-7946
Hydrotech Chemical Corp.
PO Box 10
Scarborough, ON
M1R 4Y7

Telephone: 888-645-7946

Emergency telephone: CANUTEC: (24 hours) 613-996-6666 (call collect)

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department
(US) +1 866-430-2775

+011-886-2-2712-5668 MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Danger

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SPA SYNERGY TABS

Version: 1.2

Revision Date: 08/03/2010

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Form: tablet Colour: white Odour: Chlorine

Hazard Summary

:
Corrosive
Oxidizer
Causes serious eye damage.
Causes skin burns.
Harmful or fatal if swallowed.
May be fatal if inhaled.
Severe respiratory irritant
Do not breathe dust.
Do not breathe vapour.
Do not get in eyes, on skin, or on clothing.

WHMIS Classification

: C: Oxidizing Material
E: Corrosive Material
D2B: Toxic Material Causing Other Toxic Effects

Potential Health Effects

Primary Routes of Entry

: Eye contact
Skin contact
Inhalation
Ingestion

Aggravated Medical Condition

: Skin disorders
Respiratory disorders

Inhalation

: May be fatal if inhaled.
Severe respiratory irritant

Skin

: Causes skin burns.
On contact with moisture, this material readily hydrolyzes to acid which may result

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SPA SYNERGY TABS

Version: 1.2

Revision Date: 08/03/2010

Print Date: 01/17/2012

- in burns if not promptly removed.
- Eyes : Causes serious eye damage.
- Ingestion : Harmful or fatal if swallowed.
- Chronic Exposure : This product contains a boron compound. This boron compound when fed to test animals at very high doses, has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to man.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Weight percent
Trichloro-s-triazinetrione	87-90-1	91.5 %
Boron salt		5 %

SECTION 4. FIRST AID MEASURES

First aid procedures

- Inhalation : Remove to fresh air.
Give oxygen or artificial respiration if needed.
Call a POISON CENTER or doctor/physician.
- Skin contact : Remove contaminated clothing and shoes.
Rinse immediately with plenty of water for at least 15 minutes.
Call a POISON CENTER or doctor/physician.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
Call a POISON CENTER or doctor/physician.

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Ingestion : Call a physician or poison control centre immediately.
Do not induce vomiting unless told to do so by the poison control center or doctor.
Have person sip a glass of water if able to swallow.
Do not give anything by mouth to an unconscious person.

Notes to physician

Treatment : Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : Remarks: not applicable

Fire fighting

Suitable extinguishing media : Flood with large volumes of water.

Unsuitable extinguishing media : Risk of violent reaction.
ABC powder
Dry chemical

Further information : Do not let fire burn.
Nitrogen trichloride can be generated slowly by the reaction of small quantities of water with a high concentration of this product. Nitrogen trichloride can present an explosion hazard. Immediately after a fire has been extinguished, check for wet or damp material. Any spilled material from burned or broken containers should be assumed contaminated. Neutralize to a non-oxidizing material for safe disposal. Do not attempt to re-close broken containers, even for movement to the disposal area. They should be left open to disperse any nitrogen trichloride that may form. Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. If the plastic liner (where applicable) of the container is damaged or the material is damp, the material

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should be chemically treated if allowable, to a non-oxidizing material for safe disposal. Bulging containers require extreme care. Contact the fire department.

Protective equipment and precautions for firefighters

Specific hazards during fire fighting : Under extreme heat (greater than 400F), this product will evolve noxious chlorine containing gases.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for cleaning up : Using appropriate protective clothing and safety equipment, contain spilled material.
Do not add water to spilled material.
Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal.
Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

Additional advice : Do not use floor sweeping compounds to clean up spills.
Do not transport wet or damp material.
Treat recovered material as described in the section "Disposal considerations".
Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Contains a strong oxidizing agent.

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Avoid contact with skin, eyes and clothing.
Do not breathe vapours/dust.
Do not mix with other chemicals.
Mix only with water.
Never add water to this product.
Always add product to large quantities of water.
Use only clean and dry utensils.
Do not add this product to any dispensing devices containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion.
Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.
In case of contamination or decomposition, do not reseal container.
If possible, isolate container in open air or well ventilated area.
Flood with large volumes of water.
Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco.
Do not handle until all safety precautions have been read and understood.

Storage

Requirements for storage areas and containers :

- Store in original container.
- Keep container closed when not in use.
- Store in a cool, dry, well ventilated area away from heat or open flame.
- Keep out of reach of children.
- Keep away from animals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	<u>Further information</u>
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Boron salt	TWA CA AB OEL 2009-04-30	1 mg/m3	
	TWAEV CA QC OEL 2006-12-29	1 mg/m3	
	TWAEV CA ON OEL 2005-12-17	2 mg/m3	
	STEV CA ON OEL 2005-12-17	6 mg/m3	
	TWA CA BC OEL 2006-11-29	2 mg/m3	
	STEL CA BC OEL 2006-11-29	6 mg/m3	
	STEL CA AB OEL 2009-04-30	3 ppm	

Engineering measures

Engineering measures : Use with adequate ventilation.
Ensure that eyewash stations and safety showers are close to the workstation location.

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Personal protective equipment

- Eye protection : Safety glasses with side-shields
- Hand protection : Wear rubber gloves.
- Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
- Hygiene measures : Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form : tablet
- Colour : white
- Odour : Chlorine

Safety data

- Flash point : Note: not applicable
- pH : 2.9
- Density : 0.85 g/cm³
- Water solubility : 1.5 g/l

SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid : Remarks: Moisture/high humidity.
Poor ventilation.

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	High temperatures. Contamination
Materials to avoid	: Remarks: Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; other swimming pool/spa chemicals in their concentrated form; alkalis. Avoid contact with all other chemicals.
Hazardous decomposition products	: Note: Chlorine containing gases can be produced.
Thermal decomposition	: 187 - 191 °C
Hazardous reactions	: Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 651 mg/kg Species: rat
Acute inhalation toxicity	: Remarks: May cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes.
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: rat
Skin irritation	: Remarks: Direct contact with wet material or moist skin may cause severe irritation, pain and possibly burns.
Eye irritation	: Remarks: Causes serious eye damage.

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12. ECOLOGICAL INFORMATION

Toxicity to fish

Trichloro-s-triazinetrione : LC50: 0.24 mg/l
Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates.

Trichloro-s-triazinetrione : LC50: 0.21 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Boron salt : > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae

Trichloro-s-triazinetrione : EC50: 655 mg/l
Exposure time: 96 h
Species: Algae

Boron salt : > 100 mg/l
Exposure time: 72 h
Species: Algae

Further information on ecology

Additional ecological information : Toxic to fish.
Toxic to aquatic organisms.
Avoid release to the environment.

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SECTION 13. DISPOSAL CONSIDERATIONS

- Further information : Dispose of waste material in compliance with all federal, provincial and local regulations.
Do not re-use empty containers. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.
Triple rinse containers. Contact with incompatible materials could cause a reaction or fire.
Offer rinsed packaging material to local recycling facilities. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.
- Contaminated packaging : Do not re-use empty containers.
Rinse thoroughly before discarding in trash.
Offer rinsed packaging material to local recycling facilities.

SECTION 14. TRANSPORT INFORMATION

TDG

- UN-Number : 2468
Description of the goods : TRICHLOROISOCYANURIC ACID, DRY
Class : 5.1
Packing group : II

IATA

- UN-Number : 2468
Description of the goods : Trichloroisocyanuric acid, dry, mixture
Class : 5.1
Packing group : II

IMDG

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UN-Number : 2468
Description of the goods : TRICHLOROISOCYANURIC ACID, DRY
Class : 5.1
Packing group : II
EmS Letter 1 : F-A
EmS Letter 2 : S-Q
Marine pollutant : yes
Trichloroisocyanuric acid, dry, mixture

Not recommended for shipment by air

Not regulated if shipped or transported in containers less than 400 KG.

Limited Quantity exemption possible

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : C
E
D2B

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

TSCA

Note: Listed

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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Ce produit a été classé selon les critères de risque du RPC et la FS contient toutes les informations exigées parle RPC.
Ce produit a été classé selon les critères de risque du RPC et la FDS contient toutes les informations exigées par le RPC.

SECTION 16. OTHER INFORMATION

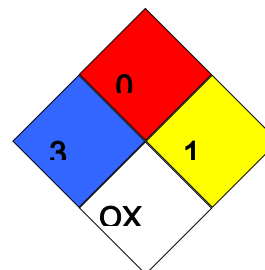
Further information

HMIS Classification

: Health hazard: 3
Flammability: 0
Physical hazards: 1
PPI: Ask supervisor or safety specialist for handling instructions

NFPA Classification

: Health hazard: 3
Fire Hazard: 0
Reactivity Hazard: 1
Specific hazards: OX Class 1
Oxidizer.



Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
<u>Mexico:</u>		+52 555 004 87 63

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.

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Material Safety Data Sheet

SYNERGY® SPA CLEAN™

Version: 1.0

Revision Date: 01/19/2012

Print Date: 01/19/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SYNERGY® SPA CLEAN™

Product Use Description: Recreational Water Product

Company: Manufacturer
BioLab, Inc. a Chemtura Company
1725 North Brown Road
Lawrenceville, GA
30043

Supplier
Bio-Lab Canada, Inc.
P.O. Box 245
West Hill, ON
M1E 4Y9

Telephone: 888-645-7946

Emergency telephone number: Poison Control Center (Medical) :: (877) 800-5553
CANUTEC: (24 hours) 613-996-6666 (call collect)
: 1-888-640-7946
Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department
(US) +1 866-430-2775
01/19/2012
MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Form: liquid Colour: amber Odour: mild

Hazard Summary : May cause eye irritation.
May cause skin irritation.
Do not ingest.
Do not get in eyes, on skin, or on clothing.

WHMIS Classification : : Not Rated

Potential Health Effects

Primary Routes of Entry : Skin contact
Ingestion
Eye contact

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- Inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- Skin : May cause skin irritation.
- Eyes : May cause eye irritation.
- Ingestion : Excessive ingestion may cause mild nausea or diarrhea.
- Chronic Exposure : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

SECTION 4. FIRST AID MEASURES

First aid procedures

- Inhalation : Move to fresh air.
Get medical attention if irritation develops and persists.
- Skin contact : Wash off with plenty of water.
Get medical attention if irritation develops and persists.
- Eye contact : Immediately flush eyes for at least 15 minutes. Get medical attention.
Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
Call a physician if irritation develops or persists.
- Ingestion : If swallowed
Have person sip a glass of water if able to swallow.
Never give anything by mouth to an unconscious person.
Call a physician or poison control centre immediately.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

- Flash point : > 199.9 °F (93.3 °C)
Method: closed cup

Fire fighting

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : There are no unusual fire and explosion hazards known.

Protective equipment and precautions for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Thoroughly decontaminate fire fighting equipment including all fire fighting

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wearing apparel after the incident.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Methods for containment / : Flush into sewer with plenty of water.
Methods for cleaning up
Additional advice : Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Avoid contact with skin, eyes and clothing.
Mix only with water.
Do not mix with other chemicals.
Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco.
Do not handle until all safety precautions have been read and understood.

Storage

Requirements for storage : Store in original container.
areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep out of reach of children.
Keep away from animals.

Other data : Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Contains no substances with occupational exposure limit values.

Engineering measures

Engineering measures : Use with adequate ventilation.
Local exhaust
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye protection : Safety glasses
not required under normal use

Hand protection : not required under normal use

Respiratory protection : None required.

Hygiene measures : Remove and wash contaminated clothing before re-use.

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Print Date: 01/19/2012

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Colour : amber
Odour : mild

Safety data

Flash point : > 199.9 °F (93.3 °C)
Method: closed cup
pH : 3.0 - 4.5
Freezing point : Note: Not Available
Boiling point/boiling range : 212 °F (100 °C)
Vapour pressure : Note: Equal to water
Density : 0.995 g/cm³
Water solubility : Note: soluble

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.
Poor ventilation.
Contamination
Materials to avoid : Remarks: Do not mix with other swimming pool/spa chemicals in their
concentrated forms.
Oxidizing agents
Hazardous decomposition products : Note: Organic vapors.
Inorganic vapors.
Carbon oxides
Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Further information : No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Further information on ecology

Additional ecological information : no data available

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Version: 1.0

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Print Date: 01/19/2012

SECTION 13. DISPOSAL CONSIDERATIONS

- Further information : Dispose of waste material in compliance with all federal, provincial and local regulations.
Offer rinsed packaging material to local recycling facilities.
- Contaminated packaging : Do not re-use empty containers.
Rinse thoroughly before discarding in trash.
Offer rinsed packaging material to local recycling facilities.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

WHMIS Classification :

CERCLA Reportable Quantity :

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

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

US.TSCA On TSCA Inventory

DSL All components of this product are on the Canadian DSL list.

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AICS Not in compliance with the inventory

NZIoC Not in compliance with the inventory

ENCS Not in compliance with the inventory

KECI Not in compliance with the inventory

PICCS Not in compliance with the inventory

IECSC Not in compliance with the inventory

TSCA list Information US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
ZUS T12B

Not listed

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Ce produit a été classé selon les critères de risque du RPC et la FS contient toutes les informations exigées par le RPC.

Ce produit a été classé selon les critères de risque du RPC et la FDS contient toutes les informations exigées par le RPC.

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 1
Flammability: 0
Physical hazards: 0

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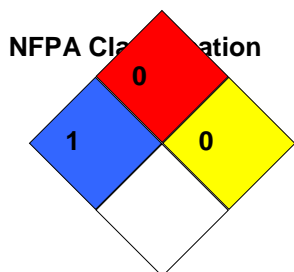
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PPI:Ask supervisor or safety specialist for handling instructions



NFPA Classification

: Health hazard: 1
Fire Hazard: 0
Reactivity Hazard: 0

Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

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