

# API BETTA WATER CONDITIONER

Chemwatch Material Safety Data Sheet (REVIEW)

Nov-13-2007

NB293EC

CHEMWATCH 02-0359

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## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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### PRODUCT NAME

API BETTA WATER CONDITIONER

### STATEMENT OF HAZARDOUS NATURE

**CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.**

### SUPPLIER

Company: Mars Fishcare North America Inc

Address:

PO Box 218

Chalfont

PA, 18914- 0218

USA

Telephone: +1 215 822 8181

Emergency Tel: +1800 222 1222 (US Only)

Company: Mars Fishcare North America Inc

Address:

50 East Hamilton Street

Chalfont

PA, 18914

USA

Telephone: +1 215 822 8181

Fax: +1 215 822 1906

### PRODUCT USE

Used according to manufacturer' s directions. For product 92.

### SYNONYMS

"Solution ID# RM000348"

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## Section 2 - HAZARDS IDENTIFICATION

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### CANADIAN WHMIS SYMBOLS



### EMERGENCY OVERVIEW

**RISK**

### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS

##### SWALLOWED

The material has NOT been classified as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality (death) rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, unintentional ingestion is not thought to be cause for concern.

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Section 2 - HAZARDS IDENTIFICATION

## EYE

Although the liquid is not thought to be an irritant, direct contact with the eye may produce transient discomfort characterized by tearing or conjunctival redness (as with windburn).

## SKIN

The material is not thought to produce adverse health effects or skin irritation following contact (as classified using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

## INHALED

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Not normally a hazard due to non-volatile nature of product.

## CHRONIC HEALTH EFFECTS

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
sodium thiosulfate	7772-98-7	1-5
Aloes, extract	85507-69-3	<1
japanese green tea		<0.5
non hazardous ingredients, proprietary		1-5
water	7732-18-5	>90

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## Section 4 - FIRST AID MEASURES

### SWALLOWED

- Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Center or a doctor.

### EYE

If this product comes in contact with eyes:

- Wash out immediately with water.
- If irritation continues, seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

### SKIN

If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

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Section 4 - FIRST AID MEASURES

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## INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

## NOTES TO PHYSICIAN

Treat symptomatically.

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## Section 5 - FIRE FIGHTING MEASURES

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Flash Point (°F): Not Applicable

Lower Explosive Limit (%): Not Applicable

Upper Explosive Limit (%): Not Applicable

Autoignition Temp (°F): Not Applicable

## EXTINGUISHING MEDIA

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

## FIRE FIGHTING

- Alert Emergency Responders and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.
- Prevent, by any means available, spillage from entering drains or water course.
- Use fire fighting procedures suitable for surrounding area.
- Do not approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.
- Equipment should be thoroughly decontaminated after use.

## GENERAL FIRE HAZARDS/HAZARDOUS COMBUSTIBLE PRODUCTS

- Non combustible.
  - Not considered to be a significant fire risk, however containers may burn.
- May emit poisonous fumes.

## FIRE INCOMPATIBILITY

None known.

## PERSONAL PROTECTION

Glasses:

Chemical goggles.

Gloves:

PVC chemical resistant type.

Respirator:

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## Section 6 - ACCIDENTAL RELEASE MEASURES

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### MINOR SPILLS

- Clean up all spills immediately.
- Avoid breathing vapors and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up.
- Place in a suitable labeled container for waste disposal.

### MAJOR SPILLS

Moderate hazard.

- Clear area of personnel and move upwind.

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## Section 6 - ACCIDENTAL RELEASE MEASURES

- Alert Emergency Responders and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labeled containers for recycling.
- Neutralize/decontaminate residue.
- Collect solid residues and seal in labeled drums for disposal.
- Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
- If contamination of drains or waterways occurs, advise emergency services.

## Section 7 - HANDLING AND STORAGE

### PROCEDURE FOR HANDLING

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

### RECOMMENDED STORAGE METHODS

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer
- Check all containers are clearly labeled and free from leaks.

### STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storing and handling recommendations.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE CONTROLS

Source

Material

TWAmg/m<sup>3</sup>

STELmg/m<sup>3</sup>

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Canada- AlbertaOccupationalExposureLimit s	sodiumthiosulfate(Coaldust(Respi rableparticulate))	2	
Canada- AlbertaOccupationalExposureLimit s	sodiumthiosulfate(Cotton, dust, raw)	0.2	
Canada- SaskatchewanOccupationalHealthan dSafetyRegulations- ContaminationLimits	sodiumthiosulfate(Particulates, NOC++)	10	20
Canada- SaskatchewanOccupationalHealthan dSafetyRegulations- ContaminationLimits	sodiumthiosulfate(Respirablesize +)	3	6
US- MichiganExposureLimitsforAirCont aminants	sodiumthiosulfate(Particulatesno totherwiseregulated, Respirabledust)	5	
Canada- AlbertaOccupationalExposureLimit s	Aloes, extract(Coaldust(Respirableparti culate))	2	
Canada- AlbertaOccupationalExposureLimit s	Aloes, extract(Cotton, dust, raw)	0.2	
Canada- SaskatchewanOccupationalHealthan dSafetyRegulations- ContaminationLimits	Aloes, extract(Particulates, NOC++)	10	20
Canada- SaskatchewanOccupationalHealthan dSafetyRegulations- ContaminationLimits	Aloes, extract(Respirablesize+)	3	6
US- MichiganExposureLimitsforAirCont aminants	Aloes, extract(Particulatesnototherwise regulated, Respirabledust)	5	

The following materials had no OELs on our records

- water: CAS:7732- 18- 5

### MATERIAL DATA

Not available. Refer to individual constituents.

### INGREDIENT DATA

ALOES, EXTRACT:

SODIUM THIOSULFATE:

WATER:

No exposure limits set by NOHSC or ACGIH.

### PERSONAL PROTECTION

#### EYE

- Safety glasses with side shields
- Chemical goggles.
- Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### HANDS/FEET

Suitability and durability of glove type is dependent on usage. Factors such as:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity,

are important in the selection of gloves.

Wear chemical protective gloves, eg. PVC.

Wear safety footwear or safety gumboots, eg. Rubber.

### OTHER

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.

Use appropriate NIOSH-certified respirator based on informed professional judgement. In conditions where no reasonable estimate of exposure can be made, assume the exposure is in a concentration IDLH and use NIOSH-certified full face pressure demand SCBA with a minimum service life of 30 minutes, or a combination full facepiece pressure demand SAR with auxiliary self-contained air supply. Respirators provided only for escape from IDLH atmospheres shall be NIOSH-certified for escape from the atmosphere in which they will be used.

### ENGINEERING CONTROLS

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear an approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas.

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## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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### PHYSICAL PROPERTIES

Liquid.

Mixes with water.

Molecular Weight: Not Applicable

Melting Range (°F): Not Available

Solubility in water (g/L): Miscible

pH (1% solution): Not Available

Volatile Component (%vol): Not Available

Relative Vapor Density (air=1): Not Available

Lower Explosive Limit (%): Not Applicable

Autoignition Temp (°F): Not Applicable

State: Liquid

Boiling Range (°F): Not Available

Specific Gravity (water= 1): 1.025

pH (as supplied): 9.9

Vapor Pressure (mmHg): 0 Not Available

Evaporation Rate: Not Available

Flash Point (°F): Not Applicable

Upper Explosive Limit (%): Not Applicable

Decomposition Temp (°F): Not Available

Viscosity: Not Available

### APPEARANCE

Light green liquid with no odour; mixes with water.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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## Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

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### CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerization will not occur.

### STORAGE INCOMPATIBILITY

- Sulfides are incompatible with acids, diazo and azo compounds, halocarbons, isocyanates, aldehydes, alkali metals, nitrides, hydrides, and other strong reducing agents.
- Many reactions of sulfides with these materials generate heat and in many cases hydrogen gas.
- Many sulfide compounds may liberate hydrogen sulfide upon reaction with an acid.

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## Section 11 - TOXICOLOGICAL INFORMATION

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### API Betta Water Conditioner

#### TOXICITY AND IRRITATION

Not available. Refer to individual constituents.

#### SODIUM THIOSULFATE:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

#### TOXICITY

Oral (human) TDLo: 300 mg/kg/7d

#### IRRITATION

Nil Reported  
[Hach]

#### ALOES, EXTRACT:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

#### TOXICITY

Intraperitoneal (mouse) LD50: 250 mg/kg  
Aloe barbadensis Mill., extract

#### IRRITATION

Nil Reported

#### WATER:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

No significant acute toxicological data identified in literature search.

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## Section 12 - ECOLOGICAL INFORMATION

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No data for API Betta Water Conditioner.

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## Section 13 - DISPOSAL CONSIDERATIONS

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### Disposal Instructions

All waste must be handled in accordance with local, state and federal

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Section 13 - DISPOSAL CONSIDERATIONS

regulations.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction,
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

DO NOT allow wash water from cleaning equipment to enter drains. Collect all wash water for treatment before disposal.

- Recycle wherever possible.
- Consult manufacturer for recycling options or consult Waste Management Authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: Burial in a licensed land-fill or Incineration in a licensed apparatus (after admixture with suitable combustible material)
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

## Section 14 - TRANSPORTATION INFORMATION

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS:UN, IATA, IMDG

## Section 15 - REGULATORY INFORMATION

### REGULATIONS

#### US EPCRA Section 313 Chemical List

Ingredient

CAS

% de minimus  
concentration

#### US CERCLA List of Hazardous Substances and Reportable Quantities

Ingredient

CAS

RQ

API Betta Water Conditioner (CAS: None):  
No regulations applicable

sodium thiosulfate (CAS: 7772-98-7) is found on the following regulatory lists;  
Canada - Alberta Occupational Exposure Limits  
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits  
Canada Domestic Substances List (DSL)  
International Council of Chemical Associations (ICCA) - High Production Volume List  
OECD Representative List of High Production Volume (HPV) Chemicals  
US - Michigan Exposure Limits for Air Contaminants  
US DOE Temporary Emergency Exposure Limits (TEELs)  
US OSHA Permissible Exposure Levels (PELs) - Table Z3  
US Toxic Substances Control Act (TSCA) - Inventory

Aloes, extract (CAS: 85507-69-3) is found on the following regulatory lists;  
Canada - Alberta Occupational Exposure Limits  
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits  
Canada Domestic Substances List (DSL)  
US - Michigan Exposure Limits for Air Contaminants  
US OSHA Permissible Exposure Levels (PELs) - Table Z3  
Aloes, extract (CAS: 94349-62-9) is found on the following regulatory lists;

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## Section 15 - REGULATORY INFORMATION

Canada - Alberta Occupational Exposure Limits  
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits  
US - Michigan Exposure Limits for Air Contaminants  
US Cosmetic Ingredient Review (CIR) Cosmetic ingredients found safe, with qualifications  
US OSHA Permissible Exposure Levels (PELs) - Table Z3

water (CAS: 7732-18-5) is found on the following regulatory lists;  
Canada Domestic Substances List (DSL)  
IMO IBC Code Chapter 18: List of products to which the Code does not apply  
OECD Representative List of High Production Volume (HPV) Chemicals  
United Nations Convention Against Illicit Traffic in Narcotic Drugs and Psychotropic Substances - Table II  
US Department of Transportation (DOT) Marine Pollutants - Appendix B  
US Department of Transportation (DOT), Hazardous Material Table  
US DOE Temporary Emergency Exposure Limits (TEELs)  
US NFPA 30B Manufacture and Storage of Aerosol Products - Chemical Heat of Combustion  
US Toxic Substances Control Act (TSCA) - Inventory

## Section 16 - OTHER INFORMATION

### LIMITED EVIDENCE

Cumulative effects may result following exposure\*.

\* (limited evidence).

### INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name	CAS
Aloes, extract	85507- 69- 3, 94349- 62- 9

*Reasonable care has been taken in the preparation of this information, but the author makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The author makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. CHEMTREC: (800) 424- 9300*

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Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:  
[www.chemwatch.net/references](http://www.chemwatch.net/references).

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following U.S.

Regulations and Standards:

OSHA Standards - 29 CFR:

1910.132 - Personal Protective Equipment - General requirements

1910.133 - Eye and face protection

1910.134 - Respiratory Protection

1910.136 - Occupational foot protection

1910.138 - Hand Protection

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Section 16 - OTHER INFORMATION

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Eye and face protection - ANSI Z87.1  
Foot protection - ANSI Z41  
Respirators must be NIOSH approved.

For detailed advice on Personal Protective Equipment, refer to the following Canadian Standards:

CAN/CSA-Z195 - Protective Footwear  
Z195.1 - Guideline on Selection, Use, and Care of Protective Footwear  
CAN/CSA-Z94.3 - Industrial Eye and Face Protectors  
Z94.3.1 - Protective Eyewear User's Guide  
CSA-Z94.4 - Selection, Use, and Care of Respirators  
CAN/CSA-Z180.1 - Compressed Breathing Air and Systems.

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