Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
5 IN 1 TEST STRIPS

STATEMENT OF HAZARDOUS NATURE
Not considered a hazardous substance according to OSHA 29 CFR 1910.1200.

SUPPLIER
Company: Mars Fishcare Inc
Address:
50 East Hamilton Street
Chalfont
PA, 18914
United States of America
Telephone: +1 215 822 8181
Fax: +1 215 822 1906

PRODUCT USE
Strips measure alkalinity, pH, nitrate, nitrite and hardness (0-425) in fresh or salt water aquariums and ponds.
For product 33G.

Section 2 - HAZARDS IDENTIFICATION

CANADIAN WHMIS SYMBOLS
None

EMERGENCY OVERVIEW

RISK

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED
■ Considered an unlikely route of entry in commercial/industrial environments.

EYE
■ The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

SKIN
■ The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

INHALED
■ None identified.

CHRONIC HEALTH EFFECTS
■ Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.
Section 2 - HAZARDS IDENTIFICATION

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>CAS RN</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>plastic strip impregnated with non hazardous ingredients, including water</td>
<td>7732-18-5</td>
<td></td>
</tr>
</tbody>
</table>

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 Centre 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.

INHALED
• If fumes, aerosols or combustion products are inhaled remove from contaminated area.
• Other measures are usually unnecessary.

NOTES TO PHYSICIAN
■ Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

Vapour Pressure (mmHg): Not Available
Upper Explosive Limit (%): Not Applicable
Specific Gravity (water=1): Not Available
Lower Explosive Limit (%): Not Applicable

EXTINGUISHING MEDIA
• There is no restriction on the type of extinguisher which may be used.

FIRE FIGHTING
• 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 a significant fire risk, however containers may burn.

continued...
FIRE INCOMPATIBILITY

■ None known.

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS

• Clean up all spills immediately.
• Secure load if safe to do so.
• Bundle/collect recoverable product.
• Collect remaining material in containers with covers for disposal.

MAJOR SPILLS

• Minor hazard.
• Clear area of personnel.
• Alert Fire Brigade and tell them location and nature of hazard.
• Wear physical protective gloves e.g. Leather.
• Contain spill/secure load if safe to do so.
• Bundle/collect recoverable product and label for recycling.
• Collect remaining product and place in appropriate containers for disposal.
• Clean up/sweep up area.
• Water may be required.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

• Limit all unnecessary personal contact.
• Wear protective clothing when risk of exposure occurs.
• Use in a well-ventilated area.
• When handling DO NOT eat, drink or smoke.
• Always wash hands with soap and water after handling.
• Avoid physical damage to containers.
• Use good occupational work practice.
• Observe manufacturer's storage and handling recommendations contained within this MSDS.

RECOMMENDED STORAGE METHODS

■ No restriction on the type of containers. Packaging as recommended by manufacturer. Check all material is clearly labelled.

STORAGE REQUIREMENTS

■ Store away from incompatible materials.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

The following materials had no OELs on our records
• water: CAS:7732-18-5

continued...
Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL DATA
5 IN 1 TEST STRIPS: Not available

WATER: ■ No exposure limits set by NOHSC or ACGIH.

PERSONAL PROTECTION

EYE ■ No special equipment for minor exposure i.e. when handling small quantities.
     OTHERWISE: For potentially moderate or heavy exposures:
     • Safety glasses with side shields.
     • NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them.

HANDS/FEET ■ No special equipment needed when handling small quantities.
     OTHERWISE: Wear general protective gloves, e.g. light weight rubber gloves.

OTHER ■ Laboratory coat.

RESPIRATOR
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 ■ Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
The basic types of engineering controls are:
Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

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

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES
Does not mix with water.
5 IN 1 TEST STRIPS

Chemwatch Material Safety Data Sheet
Dec-23-2009
C293LP(cs)

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Manufactured</td>
</tr>
<tr>
<td>Melting Range (°F)</td>
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</tr>
<tr>
<td>Boiling Range (°F)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flash Point (°F)</td>
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</tr>
<tr>
<td>Decomposition Temp (°F)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Autoignition Temp (°F)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper Explosive Limit (%)</td>
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</tr>
<tr>
<td>Lower Explosive Limit (%)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Volatile Component (%vol)</td>
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</tr>
<tr>
<td>Molecular Weight</td>
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<tr>
<td>Viscosity</td>
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<td>Solubility in water (g/L)</td>
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<tr>
<td>pH (1% solution)</td>
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</tr>
<tr>
<td>pH (as supplied)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Decomposition Temp (°F)</td>
<td>Not Available</td>
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<tr>
<td>Vapour Pressure (mmHg)</td>
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<tr>
<td>Specific Gravity (water=1)</td>
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<tr>
<td>Relative Vapour Density (air=1)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

APPEARANCE
White plastic strip with coloured paper pads; insoluble in water.

Section 10 - CHEMICAL STABILITY AND-reactivity INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY
- Product is considered stable and hazardous polymerisation will not occur.

STORAGE INCOMPATIBILITY
- Avoid contamination of water, foodstuffs, feed or seed.
None known.

For incompatible materials - refer to Section 7 - Handling and Storage.

Section 11 - TOXICOLOGICAL INFORMATION

5 In 1 Test Strips

TOXICITY AND IRRITATION
5 IN 1 TEST STRIPS:
- Not available. Refer to individual constituents.

WATER:
- No significant acute toxicological data identified in literature search.

Section 12 - ECOLOGICAL INFORMATION

No data

Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Persistence: Water/Soil</th>
<th>Persistence: Air</th>
<th>Bioaccumulation</th>
<th>Mobility</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 In 1 Test Strips</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>
Section 13 - DISPOSAL CONSIDERATIONS

Disposal Instructions
All waste must be handled in accordance with local, state and federal regulations.

• Recycle wherever possible or consult manufacturer for recycling options.
• Consult State Land Waste Management Authority for disposal.
• Bury residue in an authorised landfill.
• Recycle containers if possible, or dispose of in an authorised landfill.

Section 14 - TRANSPORTATION INFORMATION

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

Section 15 - REGULATORY INFORMATION

REGULATIONS

Regulations for ingredients

Water (CAS: 7732-18-5) is found on the following regulatory lists:

- Canada Domestic Substances List (DSL)
- Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS (English)
- International Fragrance Association (IFRA) Survey: Transparency List
- OECD List of High Production Volume (HPV) Chemicals
- OSPAR National List of Candidates for Substitution – Norway
- US FMA Air Freshener Fragrance Ingredient Survey Results
- US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

No data for 5 In 1 Test Strips (CW: 6101-45)

Section 16 - OTHER INFORMATION

EXPOSURE STANDARD FOR MIXTURES

■ “Worst Case” computer-aided prediction of spray/ mist or fume/ dust components and concentration:

■ Composite Exposure Standard for Mixture (TWA) : 100 mg/m³.

■ 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.

■ 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

  Eye and face protection - ANSI Z87.1

continued...
Foot protection - ANSI Z41
Respirators must be NIOSH approved.