

MATERIAL SAFETY DATA LEAFLET

PRODUCT: PHOSPHATE TEST KIT

DATE OF ISSUE: 9th September 2009

STATEMENT OF HAZARDOUS NATURE: Not hazardous according to Worksafe criteria
Reagent B – slightly corrosive

COMPANY DETAILS

Company Name: Aquasonic Pty Ltd
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Emergency Telephone: (02) 6586 4933
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IDENTIFICATION

Trade Name: Aquasonic Phosphate Test Kit Reagents A, B and C
UN Number: None Allocated
DG Class: None Allocated
Packing Group: None Allocated
Hazchem Group: None Allocated
Poisons Schedule: Not Scheduled
Product Use: A three pack test kit to measure phosphate levels in sea and salt water.

REAGENT A

PHYSICAL DATA

Physical and Chemical Properties

Appearance: Clear colourless liquid
Odour: Strong odour of alcohol
Specific Gravity: About 0.9g/mL
Boiling Point: About 80^oC
Flash Point: No Data
Melting Point: N/A
Ingredients: A solution of phenolphthalein in alcohol water (ca 30% v/v)
Flammability: Flammable

Chemical Properties

pH: About 7.0
Odour: Strong smell of alcohol

OTHER PROPERTIES

Form: Clear colourless liquid
Other Information: Water soluble

STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage.

Incompatibilities: Chromic acid, nitric acid, ethylene glycol, strong caustics, most metals, carbonates, oxides and phosphates.

Instable Conditions: Excessive temperatures

Decomposition Temperatures: Not established

Decomposition Products: Toxic fumes of carbon dioxide and carbon monoxide. May also release toxic and irritating vapours.

HEALTH HAZARD INFORMATION

Health Effects

- Acute – Swallowed: Ingestion may cause burning to the lining of the throat. Symptoms include sore throat, vomiting and diarrhoea.
Chronic: prolonged or repeated exposure will cause effects similar to acute exposure leading to severe stomach damage.
- Acute – Eye: Would possibly give rise to moderate eye damage. Exposure to the vapour may cause watering and irritation to eyes.
- Acute – Skin: Prolonged skin contact will give rise to mild irritation. Repeated or prolonged exposures may cause burning to the skin.
- Acute – Inhaled: Inhalation would not cause damage to the lining of the nose, throat and lungs. Breathing difficulties may occur. Neither odour nor degree of irritation are indicative of vapour concentration.
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FIRST AID

- Swallowed: If swallowed seek medical advice immediately. Do not induce vomiting. Give large quantities of milk or water. Never give anything by mouth to an unconscious person. Contact the Poisons Information Centre (Ph 131 126)
- Eye: Immediately irrigate the affected eye(s) with cold running water for 15 minutes, lifting the upper and lower eyelids occasionally and if discomfort persists, seek medical advice
- Inhaled: Wear effective mask, if inhaled move to fresh air. Supply oxygen. If not breathing give artificial respiration. Seek medical advice.
- Skin: Wash with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Call a doctor if irritation persists.

PRODUCT: PHOSPHATE TEST KIT REAGENT A/B

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PRECAUTIONS FOR USE

Exposure Limits: Not Applicable
Personal Protection: Wear protective gloves when handling.
Flammability: Not inflammable, will not support combustion. Will not burn.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions: Store in a cool dry place away from incompatible chemicals.

Spills and Disposal

Spills and Disposal: Keep unnecessary people away. Wear protective clothing equipment.
Wet down with water to reduce flammability risk. Dispose of in accordance with local, state and federal regulations.

PRODUCT: REAGENT B

DATE: 9th September 2009

PHYSICAL DATA

Physical Data

Appearance: Nearly colourless to slightly off brown clear liquid
Odour: Practically odourless
Specific Gravity: About 1.50g/mL
Boiling Point: About 100^oC
Flash Point: N/A
Melting Point: N/A
Ingredients: A mixture of sulphuric acid (28% w/v) and ammonium molybdate
Flammability: Not flammable.

Chemical Properties

pH: highly acidic pH less than 1.0
Odour: practically odourless

Other Properties

Form: Clear, nearly colourless liquid
Other information: Water miscible

STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.
Incompatibilities: Strong reducing agents such as carbohydrates.
Instable Conditions: N/A
Decomposition Temperature: N/A
Decomposition Products: Will release highly toxic vapours

PRODUCT: PHOSPHATE TEST KIT REAGENT B

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HEALTH HAZARD INFORMATION

Health Effects

- Acute – Inhaled: Inhalation may cause damage to the lining of the nose, throat and lungs due to the high acidity of the reagent. Breathing difficulties may occur. Symptoms may include coughing, shortness of breath, sore throat and runny nose. This would occur however when large quantities of the liquid are somehow inhaled.
- Acute – Swallowed: Ingestion will cause very serious burning to the mouth and lining of the throat and stomach. Symptoms would include burning of the throat, vomiting and diarrhoea.
Chronic: prolonged or repeated exposure will cause effects similar to acute exposure leading to severe stomach damage.
- Acute – Eye: Will give rise to immediate irritation and damage to the eye leading to blindness and immense pain with symptoms of redness, swelling and itching.
- Acute – Skin: Prolonged skin contact will give rise to irritation with symptoms of redness, swelling, itching and pain.
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First Aid

- Swallowed: If swallowed seek medical advice **immediately**. Do not induce vomiting. Give large quantities of milk and water. Never give anything by mouth to an unconscious person. Contact the Poisons Information Centre (Ph 131 126)
- Eye: Immediately irrigate the affected eye(s) with cold running water for 15 minutes lifting upper and lower eyelids occasionally and if discomfort persists, seek medical advice.
- Inhaled: Wear effective mask, if inhaled move to fresh air. Supply oxygen. If not breathing give artificial respiration. Seek medical advice.
- Skin: Wash with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Call a doctor if irritation persists.
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PRECAUTIONS FOR USE

- Exposure Limits: Not applicable
- Personal Protection: Wear protective gloves when handling
- Flammability: Not inflammable, will not support combustion. Will not burn.
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SAFE HANDLING INFORMATION

Storage and Transport

Storage precautions: Store in a cool dry place away from incompatible chemicals

Spills and Disposal

Spills and disposal: Keep unnecessary people away. Wear protective clothing equipment. Neutralise with sodium bicarbonate and large amounts of water.

PRODUCT: PHOSPHATE TEST KIT REAGENT C

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Dispose of in accordance with local, state and federal regulations.
Flush to sewer with water and sodium bicarbonate.

FIRE/EXPLOSION HAZARD

Flash Point: None
Extinguishing Media: None, non-flammable. Media appropriate for surrounding fire
Fire/Explos. Hazard: Not applicable but at very high temperatures the high acidity may react with metals to produce hydrogen which could ignite.
Hazchem Code: None allocated

OTHER INFORMATION

Information on Ecological Effects: As product is highly acidic, it would result in harmful conditions to the environment

PRODUCT: REAGENT C

DATE: 9th September 2009

PHYSICAL DATA

Physical Data

Appearance: Nearly colourless to slightly off brown clear liquid
Odour: Almost odourless
Specific Gravity: About 1.30
Boiling Point: About 200^oC +
Flash Point: No Data
Melting Point: N/A
Ingredients: Solution of stannous chloride in glycerine
Flammability: Not flammable but at high temperatures toxic fumes of carbon monoxide and carbon dioxide will be produced.

Chemical Properties

pH: 6.0

Other Properties

Other information: Water miscible

STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage. Keep in cool dark areas.
Incompatibilities: Strong acids. May crystallize in cold conditions.
Instable Conditions: Excessive Temperatures
Decomposition Temperature: Not Established
Decomposition Products: Carbon Dioxide and Carbon Monoxide will be produced which is inflammable and explosive.

PRODUCT: PHOSPHATE TEST KIT REAGENT C

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HEALTH HAZARD INFORMATION

Health Effects

- Acute – Inhaled: May cause nausea and vomiting if ingested. Mist may irritate nose, throat and lungs.
- Acute – Swallowed: Ingestion may cause effects similar to inhalation.
Chronic: prolonged or repeated exposure will cause effects similar to acute exposure.
- Acute – Eye: Could cause severe and permanent eye injury.
- Acute – Skin: Prolonged skin contact will give rise to severe irritation but the likelihood of any adverse health effects are low.
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First Aid

- Swallowed: If swallowed seek medical advice immediately. Drink a glassful of water. Contact the Poisons Information Centre (Ph: 131 126)
- Eye: Immediately irrigate the affected eye(s) with cold running water for 15 minutes and if discomfort persists, seek medical advice.
- Inhaled: Wear effective mask, if inhaled move to fresh air. Supply oxygen.
- Skin: Wash with soap and water. Wash clothing before re-use. Call a doctor if irritation persists.
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PRECAUTIONS FOR USE

- Exposure Limits: Not applicable
- Personal Protection: Wear protective gloves when handling
- Flammability: Not inflammable, will not support combustion. Will not burn.
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SAFE HANDLING INFORMATION

Storage and Transport

- Storage precautions: Store in a cool dry place away from incompatible chemicals such as chlorinated compounds.

Spills and Disposal

- Spills and disposal: Keep unnecessary people away. Wear protective clothing equipment. Flush with small quantities of water. Dispose of in accordance with local, state and federal regulations.
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FIRE/EXPLOSION HAZARD

- Flash Point: None
- Extinguishing Media: None, non-flammable. Media appropriate for surrounding fire
- Fire/Explos. Hazard: Not applicable but at very high temperatures toxic fumes could be produced such as carbon dioxide/carbon monoxide fumes. Wear self contained breathing apparatus and protective clothing during fire fighting operations.
- Hazchem Code: None allocated