

MATERIAL SAFETY DATA LEAFLET

PRODUCT: NITRATE TEST KIT

DATE OF ISSUE: 6TH June 2009

COMPANY DETAILS

Company Name: Aquasonic Pty Ltd
Address: 14 Commerce St WAUCHOPE NSW 2446
Emergency Telephone: (02) 6586 4933
Fax: (02) 6586 4944 Email: accounts@aquasonic.com.au

IDENTIFICATION

Trade Name: Aquasonic Nitrate 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 nitrate levels in sea and salt water.

REAGENT A

PHYSICAL DATA

Physical and Chemical Properties

Appearance: Clear colourless liquid
Odour: Strong odour of acetic acid (Vinegar)
Specific Gravity: About 1.05
Boiling Point: About 100^oC
Flash Point: No Data
Melting Point: N/A
Ingredients: A solution of acetic acid in water (ca 10% v/v)
Flammability: Not Flammable but at high temperatures toxic fumes of acetic acid could be produced which are flammable.

Chemical Properties

pH: About 2.5
Odour: Strong smell of vinegar (acetic acid)

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 effects similar to inhalation. 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: Will give rise to severe eye damage followed by loss of sight. Exposure to the vapour may cause intense watering and irritation to eyes.

Acute – Skin: Prolonged skin contact will give rise to irritation. Repeated or prolonged exposures may cause darkening of the skin, erosion of exposed front teeth and chronic inflammation of the nose, throat and bronchial tubes.

Acute – Inhaled: Inhalation may cause serious 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.

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 lower and upper 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: NITRATE 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.
Sweep up and place in a clean, dry container for later disposal.
Dispose of in accordance with local, state and federal regulations. Do not flush to sewer

PRODUCT: NITRATE TEST KIT REAGENT B

DATE: 6TH JUNE 2009

PHYSICAL DATA

Physical Data

Appearance: Nearly colourless to slightly greyish powder.
Odour: Odourless
Specific Gravity: About 1.70g/mL
Boiling Point: N/A
Flash Point: N/A
Melting Point: About 880^oC
Ingredients: A mixture of zinc dust (0.13%w/w)
Flammability: Not flammable

Chemical Properties

pH: N/A
Odour: Odourless

Other Properties

Form: White to greyish white powder
Other Information: Mostly water soluble
Stability: Stable under ordinary conditions of use and storage
Incompatibilities: Strong oxidising agents such as chlorinated powders
Instable Conditions: N/A
Decomposition Temperature: N/A
Decomposition Products: May release toxic vapours

PRODUCT: NITRATE TEST KIT REAGENT B

DATE: 6TH JUNE 2009

HEALTH HAZARD INFORMATION

Health Effects

- Acute – Inhaled: Inhalation may cause damage to the lining of the nose, throat and lungs due to the zinc dust in the reagent. Breathing difficulties may occur. Symptoms may include coughing, shortness of breath, sore throat and runny nose. This would occur however when large amounts of the powder are somehow inhaled.
- Acute – Swallowed: Ingestion may cause effects similar to inhalation. Symptoms may 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: Will give rise to irritation with symptoms of redness, swelling, itching and pain.
- Acute – Skin: Prolonged skin contact may 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 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 lower and upper 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 reuse. 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. Sweep up and place in a clean, dry container for later disposal. Dispose of in accordance with local, state and federal regulations. Do not flush to sewer.

PRODUCT: NITRATE TEST KIT REAGENT B/C

DATE: 6TH JUNE 2009

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 zinc dust may react with water to produce hydrogen which could ignite.
Hazchem Code: Not allocated.

OTHER INFORMATION

Other information on ecological effects: Not available

PRODUCT: NITRATE TEST KIT REAGENT C

DATE: 6TH JUNE 2009

Physical Data

Appearance: Clear brownish liquid
Odour: Strong odour of vinegar (acetic acid)
Specific Gravity: About 1.08
Boiling Point: About 100°C
Flash Point: No data
Melting Point: N/A
Ingredients: Solution of sodium salt of sulphanilic acid and 8-amino – 2 naphthalene. Sulphonic acid in water containing about 4% v/v acetic acid in aqueous solution
Flammability: Not flammable but at high temperatures toxic fumes of acetic acid will be produced

Chemical Properties

pH: About 3.0

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: Acetic acid vapour will be produced which is inflammable and explosive

PRODUCT: NITRATE TEST KIT REAGENT C

DATE: 6TH JUNE 2009

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: Causes severe but temporary eye condition

Acute – Skin: Prolonged skin contact will give rise to severe irritation but the likelihood of any adverse health effects are low.

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 reuse. Call a doctor if irritation persists.

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 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.

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 acetic acid fumes. Wear self-contained breathing apparatus and protective clothing during fire fighting operations.

Hazchem Code: None Allocated