

**0.5M Calcium Acetate Solution (562)**

Version 1

Revision Date 02/19/2008

Print Date 02/19/2008

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 0.5M Calcium Acetate Solution  
MSDS Number : 000000012391  
Product Use Description : Laboratory Use

Company : Honeywell International Inc.  
1953 South Harvey Street  
Muskegon, MI 49442

For more information call : 1-800-368-0050  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call : Medical: 1-800-498-5701**  
: **Transportation: 1-800-424-9300 or 703-527-3887**  
: (24 hours/day, 7 days/week)

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form : liquid, clear

Color : colourless

Odor : slight, product specific

Hazard Summary : May be harmful by inhalation, in contact with skin and if swallowed. May cause eye irritation. May cause respiratory tract irritation. May cause skin irritation. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapour or mist. Do not swallow.

**Potential Health Effects**

Skin : May irritate skin.  
May be harmful if absorbed through skin.

Eyes : May irritate eyes.

Ingestion : May cause irritation of the gastrointestinal tract.  
May cause nausea, vomiting, diarrhea, and abdominal discomfort.

Inhalation : May cause respiratory tract irritation.

Chronic Exposure : None known.

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**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component           | CAS-No.   | Weight % |
|---------------------|-----------|----------|
| Water               | 7732-18-5 | 92.10    |
| Calcium di(acetate) | 62-54-4   | 7.90     |

**SECTION 4. FIRST AID MEASURES**

- Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician if irritation develops or persists.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. 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. Call a physician if irritation develops or persists.
- Ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If victim is fully conscious, give a cupful of water. Call a physician if irritation develops or persists.

**Notes to physician**

- Treatment : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Flash point : not determined
- Lower explosion limit : not determined

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- Upper explosion limit : not determined
- Suitable extinguishing media : The product is not flammable.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry chemical
- Specific hazards during fire fighting : This product is not flammable at ambient temperatures and atmospheric pressure.  
Risk of explosion if heated under confinement.
- Special protective equipment for fire-fighters : In the event of fire and/or explosion do not breathe fumes.  
Wear self-contained breathing apparatus and protective suit.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Evacuate personnel to safe areas.  
Wear personal protective equipment. Unprotected persons must be kept away.  
Ensure adequate ventilation.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation of vapour or mist.  
Do not swallow.
- Environmental precautions : Should not be released into the environment.  
Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.  
Prevent product from entering drains.
- Methods for cleaning up : Ventilate the area.  
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

**SECTION 7. HANDLING AND STORAGE**
**Handling**

- Handling : Handle with care.  
Wear personal protective equipment.  
Use only in well-ventilated areas.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation of vapour or mist.  
Do not swallow.

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Advice on protection against fire and explosion : The product is not flammable.  
Risk of explosion if heated under confinement.  
Keep away from heat and sources of ignition.

**Storage**

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Ensure adequate ventilation, especially in confined areas.  
Keep away from heat and sources of ignition.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Containers should be protected against falling down.  
Store away from incompatible substances.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation of vapour or mist.  
Do not swallow.

Engineering measures : General room ventilation is adequate for storage and handling.

Eye protection : Do not wear contact lenses.  
Wear as appropriate:  
Safety glasses with side-shields  
If splashes are likely to occur, wear:  
Goggles or face shield, giving complete protection to eyes

Hand protection : Protective gloves  
Gloves must be inspected prior to use.  
Replace when worn.

Skin and body protection : Wear as appropriate:  
Long sleeved clothing  
Gloves  
Rubber or plastic apron

Respiratory protection : No personal respiratory protective equipment normally required.  
In case of insufficient ventilation wear suitable respiratory equipment.  
For rescue and maintenance work in storage tanks use self-contained breathing apparatus.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

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practice.  
Ensure adequate ventilation, especially in confined areas.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation of vapour or mist.  
Do not swallow.  
When using, do not eat, drink or smoke.  
Keep working clothes separately.  
Remove and wash contaminated clothing before re-use.  
Wash hands before breaks and immediately after handling the product.

**Exposure Guidelines**

Contains no substances with occupational exposure limit values.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                             |                            |
|-----------------------------|----------------------------|
| Form                        | : liquid, clear            |
| Color                       | : colourless               |
| Odor                        | : slight, product specific |
| Freezing point              | : not determined           |
| Boiling point/boiling range | : not determined           |
| Vapor pressure              | : not determined           |
| Water solubility            | : completely miscible      |

**SECTION 10. STABILITY AND REACTIVITY**

|                                  |   |
|----------------------------------|---|
| Conditions to avoid              | : Protect from heat/overheating.<br>Decomposes under high temperature.  |
| Materials to avoid               | : Strong oxidizing agents<br>Strong acids   |
| Hazardous decomposition products | : Acetone<br>In case of fire hazardous decomposition products may be produced such as:<br>Carbon monoxide<br>Carbon dioxide (CO <sub>2</sub> )<br>Calcium oxide |
| Thermal decomposition            | : >160 °C   |

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Hazardous reactions : Hazardous polymerisation does not occur.  
Stable under normal conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity (Component) : Component: 62-54-4 Calcium di(acetate)  
LD50 rat  
Dose: 4,280 mg/kg

Additional advice : There is no data available for this product.

**SECTION 12. ECOLOGICAL INFORMATION**

Additional ecological information : There is no data available for this product.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Information: Observe all Federal, State, and Local Environmental regulations.

**SECTION 14. TRANSPORT INFORMATION**

**DOT** Not dangerous goods

**TDG** Not dangerous goods

**IATA** Not dangerous goods

**IMDG** Not dangerous goods

**SECTION 15. REGULATORY INFORMATION****Inventories**

EU. EINECS : On or in compliance with the inventory

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On or in compliance with the inventory

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Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) : All components of this product are on the Canadian DSL list.

Japan. Kashin-Hou Law List : On or in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List : On or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On or in compliance with the inventory

China. Inventory of Existing Chemical Substances : On or in compliance with the inventory

Switzerland. Consolidated Inventory : On or in compliance with the inventory

New Zealand. Interim Inventory of Chemicals (as published by ERMA new Zealand) : On or in compliance with the inventory

**National regulatory information**

**SARA 311/312 Hazards** : No SARA Hazards

**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**New Jersey RTK** : Water 7732-18-5  
: Calcium di(acetate) 62-54-4

**Pennsylvania RTK** : Water 7732-18-5  
: Calcium di(acetate) 62-54-4

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**WHMIS Classification** : Not Rated

**SECTION 16. OTHER INFORMATION**

|                 | <b>HMIS III</b> | <b>NFPA</b> |
|-----------------|-----------------|-------------|
| Health Hazard   | : 1             | 1           |
| Flammability    | : 0             | 0           |
| Physical Hazard | : 0             |             |
| Instability     | :               | 0           |