

Burdick & Jackson

Material Safety Data Sheet

0.1% Acetic Acid in Water

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 0.1% Acetic Acid in Water

OTHER/GENERIC NAMES: Mixture acetic acid and water

PRODUCT USE: Laboratory solution

MANUFACTURER: Honeywell, Burdick & Jackson
1953 South Harvey Street
Muskegon, MI 49442

FOR MORE INFORMATION CALL:
(Monday-Friday, 8:00am-5:00pm)
1-800-368-0050

IN CASE OF EMERGENCY CALL:
(24 Hours/Day, 7 Days/Week)
1-800-498-5701 (Honeywell)
For Transportation Emergencies:
1-800-424-9300 (CHEMTREC - Domestic)
001-703-527-3887 (CHEMTREC - International)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Water	7732-18-5	99.9
Acetic Acid	64-19-7	0.1

Trace impurities and additional material names not listed above may also appear in Section 15 toward the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear, colorless liquid with a vinegar-like odor. Fumes may be mildly irritating. May be irritating to the eyes. May be irritating to the skin. Not for human consumption.

POTENTIAL HEALTH HAZARDS

SKIN: Prolonged contact may irritate the skin.

EYES: Contact with the eye can cause irritation.

INHALATION: Vapor may be mildly irritating.

INGESTION: Not a likely route of exposure and not intended for human consumption.

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DELAYED EFFECTS: None expected

Ingredients found on one of the OSHA designated carcinogen lists are listed below.

<u>INGREDIENT NAME</u>	<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA LIST</u>
No ingredients listed in this section.			

4. FIRST AID MEASURES

SKIN: Remove from contact. Wash the area with soap and water and/or flush the affected area with plenty of water. If irritation develops or persists seek medical attention.

EYES: Remove from contact. Flush the affected area with plenty of water. If irritation develops or persists seek medical attention.

INHALATION: Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen provided a qualified operator is available. Get medical attention.

INGESTION: Get medical attention if needed.

ADVICE TO PHYSICIAN: Treat according to symptoms present.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT:	>180
FLASH POINT METHOD:	Closed cup
AUTOIGNITION TEMPERATURE:	Not applicable
UPPER FLAME LIMIT (volume % in air):	Not applicable
LOWER FLAME LIMIT (volume % in air):	Not applicable
FLAME PROPAGATION RATE (solids):	Not applicable
OSHA FLAMMABILITY CLASS:	Not flammable

EXTINGUISHING MEDIA: Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None, however, closed containers may pressurize, distort and/or explode under fire conditions.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:

Apply water spray to cool fire-exposed containers to minimize the potential for rupture.

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6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: (Always wear recommended personal protective equipment.)
Isolate the spill area. Stop leak in a safe and practical manner. If leak cannot be stopped easily and safely, advise trained emergency response personnel. Use an inert absorbent material to contain the spilled solution to prevent it from running into drains or waterways. Collect in approved waste containers for disposal. Do not allow spilled material to enter drains or waterways.

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE

NORMAL HANDLING: (Always wear recommended personal protective equipment.)

Keep container closed. Wear basic personal protective equipment when handling. Additionally protective gloves, eyewear and clothing adequate to protect against exposure to weak acid are recommended. Avoid contact with skin and eyes. Avoid inhaling fumes and vapors. Do not swallow.

STORAGE RECOMMENDATIONS:

Store containers closed in a cool dry area. Avoid exposure to extreme heat and cold. Keep containers upright and closed. Protect containers from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide general or local exhaust ventilation systems in the handling area.

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION:

Wear protective clothing to avoid contact with weak acid. Where liquid contact is possible wear personal protective clothing and gloves. Select clothing to cover all potentially exposed areas.

EYE PROTECTION:

Wear safety glasses with non-perforated sideshields for normal handling. If there is potential for contact with the weak acid wear goggles or a face shield.

RESPIRATORY PROTECTION:

None required. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

The respirator must be selected based on contamination levels and use conditions found in the workplace, must not exceed the working limits of the respirator and be approved by the National Institute for Occupational Safety and Health (NIOSH) and used in accordance with Occupational Safety and Health Administration (OSHA) 29 CFR 1910.134.

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ADDITIONAL RECOMMENDATIONS:

Make emergency eyewash stations and washing facilities available in work area. Remove wet work clothes.

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

EXPOSURE GUIDELINES

<u>INGREDIENT NAME</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH</u>
Acetic acid	10 ppm 15 ppm STEL	10 ppm	10 ppm 15 ppm STEL

- * = Limit established by Honeywell International, Inc.
- ** = Workplace Environmental Exposure Level (AIHA).
- *** = Biological Exposure Index (ACGIH).

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear, colorless	
PHYSICAL STATE:	Liquid	
MOLECULAR WEIGHT:	Mixture	
CHEMICAL FORMULA:	Mixture	
ODOR:	Vinegar-like	
DENSITY (water = 1.0):	0.9983 gm/cc @ 77°F (25°C)	
SOLUBILITY IN WATER (weight %):	Not applicable	
pH:	2	
BOILING POINT:	212°F (100°C)	
MELTING POINT:	32°F (0°C)	
VAPOR PRESSURE:	23.76 mm Hg @ 77°F (25°C)	
VAPOR DENSITY (air = 1.0):	Not determined	
EVAPORATION RATE:	Not applicable	COMPARED TO: None
% VOLATILES:	Not applicable	
FLASH POINT:	180°F (82°C)	

(Flash point method and additional flammability data are found in Section 5.)

10. STABILITY AND REACTIVITY

NORMALLY STABLE? (CONDITIONS TO AVOID):

Material is stable under ambient conditions of use and storage.

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INCOMPATIBILITIES:

Violent reactions can occur with acetaldehyde and potassium hydroxide.

CONDITIONS TO AVOID:

Avoid extreme temperature conditions and incompatible substances.

HAZARDOUS DECOMPOSITION PRODUCTS:

Acid component may release irritant or toxic gases and vapors

HAZARDOUS POLYMERIZATION:Will not occur

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

None

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

None

OTHER DATA:None

12. ECOLOGICAL INFORMATION

None

13. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded? No

If yes, the RCRA ID number is: Not applicable

OTHER DISPOSAL CONSIDERATIONS: None

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

Proper DOT Shipping Name: Not regulated**US DOT Hazard Class:** None

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US DOT ID Numbers: None
US DOT Packing Group: None
Reportable Quantity (RQ): None
Emergency Response Guidebook (2004 Edition): None

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

15. REGULATORY INFORMATION**TOXIC SUBSTANCES CONTROL ACT (TSCA)**

TSCA INVENTORY STATUS: Listed on the TSCA Inventory

OTHER TSCA ISSUES: TSCA High Production Volume (HPV) Chemicals: 1990, 1994 & Post-1994 Additions (01/20/06)

SARA TITLE III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

<u>INGREDIENT NAME</u>	<u>SARA/CERCLA RQ (lb)</u>	<u>SARA EHS TPO (lb)</u>
Acetic acid	5000 lbs.	

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: Immediate.

SARA 313 TOXIC CHEMICALS:

The following ingredients are SARA 313 "Toxic Chemicals". CAS numbers and weight percents are found in Section 2.

<u>INGREDIENT NAME</u>	<u>COMMENT</u>
No ingredients listed in this section	

STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

<u>INGREDIENT NAME</u>	<u>WEIGHT %</u>	<u>COMMENT</u>
No ingredients listed in this section		

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ADDITIONAL REGULATORY INFORMATION: None

WHMIS CLASSIFICATION (CANADA):

None; product as shipped is uncontrolled.

FOREIGN INVENTORY STATUS:

Water is listed on the following inventories:

- Australia (AICS)
- Canada (DSL)
- China (IECSC)
- European Union (EINECS)
- Japan (ENCS)
- Korea (KECI)
- New Zealand
- Philippines (PICCS)
- Switzerland

16. OTHER INFORMATION

CURRENT ISSUE DATE: December 1, 2006

PREVIOUS ISSUE DATE: New MSDS

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:

OTHER INFORMATION:

NFPA Classification (acetic acid as 100%):

Health:	3
Flammability:	2
Instability:	0

NFPA Classification (water as 100%)

Health:	0
Flammability:	0
Instability:	0