

## Burdick & Jackson

# Material Safety Data Sheet

## Acetone/Toluene Blend

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Acetone/Toluene Blend

**OTHER/GENERIC NAMES:** SR404SW4

**PRODUCT USE:** Solvent

**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)  
1-800-707-4555 or Chemtrec 1-800-424-9300

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Acetone	67-64-1	~50%
Toluene	108-88-3	~50%

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:** Flammable mixture. Clear, colorless liquid. Moderately toxic when ingested or inhaled. Slightly hazardous when absorbed through skin. Mild chronic irritant.

#### POTENTIAL HEALTH HAZARDS

**SKIN:** Irritant. Can cause dermatitis through defatting of the skin.

**EYES:** Eye and mucous membrane irritant. Can cause redness and itching

**INHALATION:** Can cause irritation to the respiratory tract. Body temperature may be lowered. Can cause headache, stomach pain, nausea, drowsiness, disorientation, kidney damage, liver damage and coma.

**INGESTION:** Can cause nausea, diarrhea, vomiting, disorientation, liver and kidney damage and coma.

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**DELAYED EFFECTS:** Prolonged or repeated exposure can cause Central Nervous System, liver and kidney damage.

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.			

ACGIH Classification for Toluene: A4, Not classifiable as a human carcinogen.

**4. FIRST AID MEASURES**

**SKIN:** Rinse affected area thoroughly with water until no evidence of chemical remains.

**EYES:** Rinse eyes with plenty of water for at least 15 minutes. Contact a physician.

**INHALATION:** Remove from exposure area to fresh air. If victim is not breathing administer artificial respiration according to your level of training and obtain professional medical assistance immediately.

**INGESTION:** Get professional medical assistance immediately. Do NOT induce vomiting to a victim who is unconscious, not breathing, or convulsing. For other symptoms (such as nausea) consult local Poison Control Center.

**ADVICE TO PHYSICIAN:** No specific antidote. Treat symptomatically and supportively.

**5. FIRE FIGHTING MEASURES****FLAMMABLE PROPERTIES**

<b>FLASH POINT:</b>	<28°F
<b>FLASH POINT METHOD:</b>	Closed Cup
<b>AUTOIGNITION TEMPERATURE:</b>	Not Determined
<b>UPPER FLAME LIMIT (volume % in air):</b>	Not Determined
<b>LOWER FLAME LIMIT (volume % in air):</b>	Not Determined
<b>FLAME PROPAGATION RATE (solids):</b>	Not Applicable
<b>OSHA FLAMMABILITY CLASS:</b>	Not Determined

**EXTINGUISHING MEDIA:**  
Carbon dioxide, dry chemical and foam.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Vapor may travel a considerable distance to a source of ignition and flash back. Explosion may result if vapors are ignited in a confined area. Volatile and flammable.

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##### **SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:**

Water will not be effective in extinguishing a fire. Use water spray to cool fire-exposed containers and to reduce rate of burning, taking care not to spread the fire. Heat will build pressure and rupture closed storage containers. Wear NIOSH approved self-contained breathing apparatus, and full protective clothing.

#### **6. ACCIDENTAL RELEASE MEASURES**

##### **IN CASE OF SPILL OR OTHER RELEASE:** (Always wear recommended personal protective equipment.)

Remove personnel from area and remove all ignition sources. Wear protective clothing and use approved respirator equipment. Absorb spilled material in an absorbent recommended for solvent spills and remove to a safe location for disposal.

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.)

Ground containers for transfer of contents. Keep away from sparks, open flames and ignition sources, Do not get in eyes, on skin or clothing. Use with adequate ventilation. No smoking in areas of use.

##### **STORAGE RECOMMENDATIONS:**

Store in an area designed for storage of flammable liquids. (OSHA 29 CFR 1910.106)  
Store in a cool, well-ventilated area away from oxidizers and ignition sources. Protect against physical damage. Outside or detached storage is preferable. Inside storage should be in a standard flammable liquids storage room or cabinet. No smoking in storage areas.

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

##### **ENGINEERING CONTROLS:**

Provide general or local exhaust ventilation systems to maintain airborne concentrations below exposure levels. Regularly inspect all electrical and mechanical equipment used with or near toluene. Ground and bond metal containers to minimize static sparks.

##### **PERSONAL PROTECTIVE EQUIPMENT**

**SKIN PROTECTION:** Protective gloves and clothing are recommended. Viton or nitrile rubber offers acceptable chemical resistance. Clothing should be static free.

**EYE PROTECTION:** Wear safety glasses with non-perforated sideshields for normal handling. Goggles or a full face shield may be necessary depending on quantity of material and conditions of use.

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**RESPIRATORY PROTECTION:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**ADDITIONAL RECOMMENDATIONS:** Emergency eyewash fountains and safety showers should be available in the vicinity of any potential exposure.

<u>INGREDIENT NAME</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER LIMIT</u>
Acetone	750 ppm	1000 ppm	
Toluene	50 ppm	200 ppm	

\* = 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

This material is a mixture of Acetone and Toluene. Component specific physical property information can be obtained by calling the manufacture's name listed in section 1.

<b>APPEARANCE:</b>	Clear, Colorless
<b>PHYSICAL STATE:</b>	Liquid
<b>MOLECULAR WEIGHT:</b>	Not Determined
<b>CHEMICAL FORMULA:</b>	Not Applicable for solution.
<b>ODOR:</b>	Fragrant solvent odor. Threshold not determined.
<b>SPECIFIC GRAVITY (water = 1.0):</b>	<1.0
<b>SOLUBILITY IN WATER (weight %):</b>	Toluene is not soluble in water. Acetone is miscible in water.
<b>pH:</b>	Not Applicable
<b>BOILING POINT:</b>	Not determined for mixture.
<b>MELTING POINT:</b>	~95°C
<b>VAPOR PRESSURE:</b>	Not Determined
<b>VAPOR DENSITY (air = 1.0):</b>	>1.0 (Heavier than air)
<b>EVAPORATION RATE:</b>	Acetone: 6 <b>COMPARED TO:</b> Butyl Acetate = 1 Toluene: 2.2
<b>% VOLATILES:</b>	100%
<b>FLASH POINT:</b>	<28°F

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

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#### **10. STABILITY AND REACTIVITY**

**NORMALLY STABLE? (CONDITIONS TO AVOID):**

Stable at room temperature in closed containers under normal storage and handling conditions. Avoid heat, ignition sources, incompatible materials.

**INCOMPATIBILITIES:** Strong oxidizing agents and strong acids.

**CONDITIONS TO AVOID:** Heat, sparks and flame. Direct sunlight

**HAZARDOUS DECOMPOSITION PRODUCTS:** Incomplete combustion can produce toxic fumes.

**HAZARDOUS POLYMERIZATION:** Not expected to occur.

#### **11. TOXICOLOGICAL INFORMATION**

**IMMEDIATE (ACUTE) EFFECTS:**

Oral, Rat LD<sub>50</sub>: 5500 mg/kg (Acetone)

Oral, Rat LD<sub>50</sub>: 5000 mg/kg (Toluene)

**DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:**

Prolonged or repeated exposure can cause liver and kidney damage.

**OTHER DATA:** None.

#### **12. ECOLOGICAL INFORMATION**

Toluene is insoluble in water. The mixture will harm aquatic life.

#### **13. DISPOSAL CONSIDERATIONS**

**RCRA**

**Is the unused product a RCRA hazardous waste if discarded?** Yes

**If yes, the RCRA ID number is:** D001, U002 (Acetone), U220 (Toluene)

**OTHER DISPOSAL CONSIDERATIONS:**

Dispose of material in accordance with all applicable local, state, and federal regulations.

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 RCA classification and the proper disposal method.

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US DOT PROPER SHIPPING NAME: Flammable liquid, n.o.s.  
(Contains Acetone and Toluene)  
US DOT HAZARD CLASS: 3, Flammable liquid  
US DOT ID NUMBER: UN1993  
US DOT PACKING GROUP: II  
NA EMERGENCY RESPONSE GUIDE: 128

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: Both ingredients are listed on the TSCA inventory.

OTHER TSCA ISSUES: Mixture may be subject to export notification. Check with your Freight Forwarder prior to assignment.

**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 TPQ (lb)</u>
Acetone	5000 lbs.	Not listed.
Toluene	1000 lbs.	Not listed.

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: Acute, Fire

**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>
Acetone	
Toluene	

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#### 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>
Benzene	Trace	See Proposition 65 statement, below

#### ADDITIONAL REGULATORY INFORMATION:

#### WHMIS CLASSIFICATION (CANADA):

Class B, Division 2

FOREIGN INVENTORY STATUS: Not determined.

#### 16. OTHER INFORMATION

CURRENT ISSUE DATE: June, 2000

PREVIOUS ISSUE DATE: NEW, December, 1997

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

New Product. Format update to ANSI Standard. New header and footer information.

#### OTHER INFORMATION:

##### California Proposition 65 Label Statement

*Toluene is listed on one of the California Proposition 65 lists, and contains trace amounts of Benzene (<10ppm); therefore, the following statement has been placed on the product label:*

*"Warning: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm."*

NFPA Classification	
Health:	2
Flammability:	3
Reactivity:	0