

Burdick & Jackson

Material Safety Data Sheet

Methyl Acetate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Methyl Acetate

OTHER/GENERIC NAMES: Acetic acid, methyl ester; methanol ethanoate; methyl acetic ester

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)
1-800-498-5701 (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>
Methyl acetate	79-20-9	99 - 100

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: Danger. Both liquid and vapor are extremely flammable. Vapor may cause flash fire and/or form explosive mixtures in air. May be fatal or cause blindness if swallowed. Product causes irritation to skin, eyes and may be absorbed. Inhalation causes respiratory tract irritation and narcotic effects. High exposure causes central nervous system effects.

POTENTIAL HEALTH HAZARDS

SKIN: Can cause skin irritation and itching, redness, burning, drying and cracking of skin. Prolonged or repeated contact may dry the skin. Absorption through the skin is possible and may add to toxic effects from breathing or swallowing.

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EYES: Can cause eye irritation, burns and potentially permanent damage. Symptoms include stinging, tearing, redness and swelling of the eyes.

INHALATION: Breathing of vapor or mist causes irritation to the respiratory tract. Vapors can cause shortness of breath, dizziness, headache and other reversible symptoms. High concentrations can cause pulmonary edema, central nervous system depression, difficulty breathing, nausea and other symptoms.

INGESTION: Not a likely route of exposure; swallowing this material may be harmful. Likely to cause abdominal pain, nausea and similar effects to inhalation. Aspiration hazard .

DELAYED EFFECTS: Drying and cracking of skin, central nervous system effects and damage to the eye.

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. Flush the exposed area with large amounts of water. If irritation develops, get medical attention immediately. Launder clothing before reuse and discard or thoroughly decontaminate shoes.

EYES: If irritation develops, immediately flush eyes gently with water for at least 15 minutes while holding eyelids open. Get medical attention immediately.

INHALATION: Remove the affected individual to fresh air. Get medical attention immediately. Keep the person warm and quiet. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen provided a qualified operator is available.

INGESTION: Get medical attention immediately. If individual is drowsy or unconscious, do not give anything by mouth; Avoid aspiration hazard by placing individual on the side with head down. Seek medical advice about whether to induce vomiting. Do not leave the individual unattended if possible.

ADVICE TO PHYSICIAN: Methyl acetate can be hydrolyzed in the body yielding methanol and acetic acid. Symptoms of poisoning may be delayed.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 3°F (-15.6°C)
FLASH POINT METHOD: Set a flash closed cup

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AUTOIGNITION TEMPERATURE:	933°F (501°C)
UPPER FLAME LIMIT (volume % in air):	16 (Vol)
LOWER FLAME LIMIT (volume % in air):	3.1 (Vol)
FLAME PROPAGATION RATE (solids):	Not determined
OSHA FLAMMABILITY CLASS:	Flammable

EXTINGUISHING MEDIA: Alcohol resistant foam, carbon dioxide, dry chemical

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors may flash and/or ignite explosively. Vapors are heavier than air and may travel a considerable distance back to a source of ignition and flashback.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:

Wear full firefighting turnout gear and self contained breathing apparatus. Use water spray to cool fire exposed containers.

6. ACCIDENTAL RELEASE MEASURES

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

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Provide adequate ventilation and isolate the spill area. Use non-sparking tools and equipment. Contain and recover liquid when possible. Absorb spill with an inert absorbent recommended for solvent spills and place in an approved, labeled chemical waste container. Do not allow spill to enter into sewers 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.)

Use proper bonding and grounding when transferring contents. Special precautions may be necessary to dissipate static electricity for non-conductive containers (see NFPA 77). Keep away from heat, sparks, open flames and other sources of ignition. Use with adequate ventilation. Do not swallow or breathe fumes and vapors. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke in the work area. Keep containers closed when not in use. Wash thoroughly after handling.

Containers of this material may be hazardous when emptied. Empty containers may retain product residues (vapor and/or liquid) therefore all hazard precautions given in the data sheet must continue to be observed.

STORAGE RECOMMENDATIONS:

Store the product in a cool dry, well-ventilated area suitable for flammable liquids. (OSHA 29 CFR 1910.106) Keep containers upright and closed. Protect containers from physical damage. Store the product away from heat, open flames and incompatible materials.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**ENGINEERING CONTROLS:**

Provide adequate general ventilation suitable for the workroom. Provide local exhaust ventilation and/or closed systems to control personal exposure and airborne levels of fumes and vapors. Closed systems are preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

PERSONAL PROTECTIVE EQUIPMENT**SKIN PROTECTION:**

Wear protective clothing and gloves to avoid contact with liquid.

EYE PROTECTION:

Wear safety glasses with non-perforated side shields and/or goggles for normal handling. If there is potential for liquid splashing add a face shield.

RESPIRATORY PROTECTION:

Use a full face organic vapor respirator or alternately self contained or air supplied respirator.
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.

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>
Methyl acetate	200 ppm 250 ppm	200 ppm	200 ppm 250 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

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colorless
PHYSICAL STATE:	Liquid
MOLECULAR WEIGHT:	74
CHEMICAL FORMULA:	C ₃ H ₆ O ₂
ODOR:	Pleasant
DENSITY (water = 1.0):	0.933 @ 68°F (20°C)
SOLUBILITY IN WATER (weight %):	Appreciable
pH:	Not applicable
BOILING POINT:	132 - 136°F (55.8 - 58.2°C)
MELTING POINT:	Not applicable
VAPOR PRESSURE:	179.5 mm Hg @ 68°F (22°C)
VAPOR DENSITY (air = 1.0):	2.6
EVAPORATION RATE:	6.2
% VOLATILES:	Not applicable
FLASH POINT:	Not applicable

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

COMPARED TO: n-butyl acetate = 1**10. STABILITY AND REACTIVITY****NORMALLY STABLE? (CONDITIONS TO AVOID):**

Material is stable under ambient conditions of use and storage.

INCOMPATIBILITIES:

Material reacts with strong oxidizing agents, nitrates and alkalis. Material reacts slowly with water.

CONDITIONS TO AVOID:

Heat, flames, static electricity, other sources of ignition and water

HAZARDOUS DECOMPOSITION PRODUCTS:

Acrid smoke and fumes

HAZARDOUS POLYMERIZATION:

Will not occur

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11. TOXICOLOGICAL INFORMATION**IMMEDIATE (ACUTE) EFFECTS:**

Oral LD50 (rat) : >5000 mg/kg (highest dose tested)
Inhalation LC50 (rat): 4 h >16000 ppm
Dermal LD50 (rabbit) : >5000 mg/kg (highest dose tested)
Skin irritation (rabbit): slight
Eye irritation (rabbit): moderate
Skin sensitization (human): none

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

None

OTHER DATA:

None

12. ECOLOGICAL INFORMATION

96 h LC50 (Fathead minnow): 320 - 399 mg/l
48 h EC-50 (Daphnid): NOEC; 1027 mg/l
72 h (selenastrum): 120 mg/l

13. DISPOSAL CONSIDERATIONS**RCRA**

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

If yes, the RCRA ID number is: D001; U154

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: Methyl Acetate
US DOT Hazard Class: 3, Flammable liquid
US DOT ID Numbers: UN1231
US DOT Packing Group: II
Reportable Quantity (RQ): None
Emergency Response Guidebook (2004 Edition): 129

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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: Methyl Acetate

TSCA Section 4(a) Final Test Rules & Testing Consent Orders

TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR) (40 CFR 712, Subpt. B)

TSCA Section 8(a) Inventory Update Rule (IUR): Subject to a Special Regulatory Action under TSCA (2002 EPA Instructions, App. B)

TSCA Section 8(d) Health & Safety Data Reporting (40 CFR 716, Subpt. B)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Methyl Alcohol

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.

INGREDIENT NAME**SARA/CERCLA RQ (lb)****SARA EHS TPQ (lb)**

Methyl acetate

100

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, Fire

SARA 313 TOXIC CHEMICALS:

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

INGREDIENT NAME**COMMENT**

No ingredients listed in this section

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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.

INGREDIENT NAME**WEIGHT %****COMMENT**

No ingredients listed in this section

ADDITIONAL REGULATORY INFORMATION: None

WHMIS CLASSIFICATION (CANADA):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

B2 Flammable liquid

D2B Toxic Material Causing Other Toxic Effects

FOREIGN INVENTORY STATUS:

Methyl acetate 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: August 1, 2006

PREVIOUS ISSUE DATE: Not applicable

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

New MSDS

OTHER INFORMATION:

NFPA Classification

Health: 2

Flammability: 3

Instability: 0