Burdick & Jackson

Material Safety Data Sheet

Anisole

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Anisole
OTHER/GENERIC NAMES: Methoxy Benzene, Methyl Phenyl Ether
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

INGREDIENT NAME	CAS NUMBER	WEIGHT %
Anisole	100-66-3	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:
Flammable Liquid and Vapor. Toxic if swallowed or inhaled. Can cause irritation to skin, eyes, and respiratory tract.

POTENTIAL HEALTH HAZARDS

SKIN: Irritant Prolonged exposure may cause dryness and soreness of skin.

EYES: Irritant. May cause tearing and blurred vision.

INHALATION: Can cause respiratory tract irritation, nausea, shortness of breath, headache, drowsiness, and disorientation.

INGESTION: Causes sore throat, nausea, stomach pain, headache, drowsiness and disorientation.

DELAYED EFFECTS: None known.

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

INGREDIENT NAME	NTP STATUS	IARC STATUS	OSHA LIST
No ingredients listed in this section.			

4. FIRST AID MEASURES

SKIN: Wash affected area with mild soap and water and rinse area until no evidence of chemical remains.

EYES: Rinse eyes with plenty of water or normal saline solution for at least 15 minutes. Get medical attention.

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: Do not induce vomiting unless instructed to do so by a physician. Get medical assistance immediately.

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

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT:	125°F (52°C)
FLASH POINT METHOD:	Open Cup
AUTOIGNITION TEMPERATURE:	887°F (475°C)
UPPER FLAME LIMIT (volume % in air):	% Not Determined
LOWER FLAME LIMIT (volume % in air):	% Not Determined
FLAME PROPAGATION RATE (solids):	Not applicable
OSHA FLAMMABILITY CLASS:	II

EXTINGUISHING MEDIA:
Dry chemical, carbon dioxide, or foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Vapors are heavier than air and can be ignited by a flame or heat source remote to the location of a leak or spill.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:
Water spray will not be effective as a fire fighting agent, but may be useful in cooling containers or structure components that are adjacent to involved materia l. Do not release runoff from spills or firefighting efforts to sewers or waterways.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: (Always wear recommended personal protective equipment.) Eliminate sources of ignition. 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 of the situation.) Using inert material (such as ground corncobs) dike the spilled solvent to prevent it from running into 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.)
Flammable liquid and vapors. Keep container closed. Do not breathe vapors. Avoid contact with skin, eyes and mucous membranes. Keep away from heat, sparks and flame. Electrically bond and ground all handling equipment.
Protective neoprene or rubber gloves and apron are recommended.

STORAGE RECOMMENDATIONS:
Store in an area designed for storage of flammable liquids. (OSHA 29 CFR 1910.106)
Protect from temperature extremes and sunlight, and store away from incompatible substances and in accordance with 29 CFR 1910.106. Avoid acids, bases, oxidizers, explosives, nitrogen-fluorine compounds, sulfites, perchlorates, reducing agents and plastics.

Flammable liquid and vapor. Once liquid solvent has been completely dispensed, containers which appear "empty" should be handled in the same manner as when they were "full" of liquid solvent.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:
Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION:
Where liquid contact is possible impervious coveralls are recommended. To minimize the possibility in other handling and storage operations, wear appropriate PPE to include chemical resistant gloves, boots and apron.

EYE PROTECTION:
Wear protective eyeglasses (with side shields), chemical goggles alone or in conjunction with full face shield. Follow OSHA regulation 29CFR 1910.133.
(Contact lenses are not protective devices.)

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:
This material should be used in close proximity to eyewash station and safety shower. Use appropriate personal hygiene after handling this material. Do not smoke in the vicinity of flammable materials.

EXPOSURE GUIDELINES

INGREDIENT NAME	ACGIH TLV	OSHA PEL	OTHER LIMIT
No ingredients listed in this section			

* = 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:	Colorless
PHYSICAL STATE:	Liquid (Clear)
MOLECULAR WEIGHT:	108.15
CHEMICAL FORMULA:	C_7H_8O
ODOR:	Sweet anise-like odor
SPECIFIC GRAVITY (water = 1.0):	1.0- @ 20°C
SOLUBILITY IN WATER (weight %):	Insoluable in water.

pH:	Not applicable
BOILING POINT:	154°C (309°F)
MELTING POINT:	-37°C
VAPOR PRESSURE:	10 mm Hg @ 42°C
VAPOR DENSITY (air = 1.0):	3.7
EVAPORATION RATE:	Not determine **COMPARED TO:** Butyl Acetate = 1
% VOLATILES:	100%
FLASH POINT:	125°F (52°C)

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

10. STABILITY AND REACTIVITY

NORMALLY STABLE? (CONDITIONS TO AVOID):
Stable at room temperatures in closed containers under normal and recommended storage and use conditions.
INCOMPATIBILITIES:
Nitrates, strong oxidizers, alkalis and acids.

CONDITIONS TO AVOID:
Avoid contact with heat, sparks, flame and other sources of ignition. Overheated containers can rupture violently and be propelled great distances in a fire situation.

HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition may cause toxic fumes to form.

HAZARDOUS POLYMERIZATION:
Not expected to occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:
Oral (Rat) LD_{50}: 3700 mg/Kg
Oral (Mouse) LD_{50}: 2800mg/Kg

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:
None determined
OTHER DATA:
None

12. ECOLOGICAL INFORMATION

Insufficient Data

13. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded? Yes
If yes, the RCRA ID number is: D001

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.

14. TRANSPORT INFORMATION

US DOT PROPER SHIPPING NAME:	Anisole
US DOT HAZARD CLASS:	3, Flammable Liquid
US DOT ID NUMBER:	UN 2222
US DOT PACKING GROUP:	III
NA EMERGENCY RESPONSE GUIDE:	127

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: Not subject to export notification.

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)
No ingredients listed in this section.		

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, Acute, 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	

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):
Class B, Division 2

FOREIGN INVENTORY STATUS:
DSL, EINECS

16. OTHER INFORMATION

CURRENT ISSUE DATE: June, 2000
PREVIOUS ISSUE DATE: New, April, 1999

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:
Update to ANSI Standard. New header and footer information.

OTHER INFORMATION:

NFPA Classification	
Health:	1
Flammability:	2
Reactivity:	0