

Burdick & Jackson

Material Safety Data Sheet

Hexane

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hexane

OTHER/GENERIC NAMES: n-Hexane, hexyl hydride

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>
Hexane	110-54-3	~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 by inhalation and ingestion. Central nervous system depressant

POTENTIAL HEALTH HAZARDS

SKIN: Can cause dermatitis through defatting of the skin.

EYES: Irritant. Redness and itching may occur.

INHALATION: Can cause dizziness, extremity numbness, central nervous system depression and respiratory tract irritation.

INGESTION: Ingestion can cause same effects as inhalation plus gastrointestinal tract discomfort.

DELAYED EFFECTS: Effects of CNS depression may linger for hours after exposure. Other systemic toxicity effects are not known.

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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: Rinse affected area with plenty of 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: If swallowed, do not induce vomiting unless advised to do so by a physician.

ADVICE TO PHYSICIAN: Treat supportively and symptomatically.

5. FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES**

FLASH POINT:	-7°F (-22°C)
FLASH POINT METHOD:	Closed Cup
AUTOIGNITION TEMPERATURE:	437°F
UPPER FLAME LIMIT (volume % in air):	7.5%
LOWER FLAME LIMIT (volume % in air):	1.1%
FLAME PROPAGATION RATE (solids):	Not Applicable
OSHA FLAMMABILITY CLASS:	IB

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical, regular foam or water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fire hazard and moderate explosion hazard when exposed to an ignition source. Containers can pressurize and rupture during fire conditions.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:

Do not release runoff from fire control methods to sewers or waterways. Fire may produce toxic thermal decomposition products. Wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

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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 ground all handling equipment.

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. **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. 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:
Wear Chemically protective gloves, boots and aprons to prevent prolonged or repeated skin contact.

EYE PROTECTION:
Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

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 nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

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ADDITIONAL RECOMMENDATIONS:

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

Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material.

EXPOSURE GUIDELINES

<u>INGREDIENT NAME</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER LIMIT</u>
Hexane	50ppm	50ppm	None

* = 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:	86.18
CHEMICAL FORMULA:	C ₆ H ₁₄
ODOR:	Mild gasoline like Threshold: Not listed
SPECIFIC GRAVITY (water = 1.0):	0.659
SOLUBILITY IN WATER (weight %):	0.014% @ 20°C
pH:	Not Applicable
BOILING POINT:	68.7°C
MELTING POINT:	95.3°C
VAPOR PRESSURE:	124mm Hg @ 20°C
VAPOR DENSITY (air = 1.0):	3.0
EVAPORATION RATE:	~16 COMPARED TO: Butyl Acetate = 1
% VOLATILES:	100%
FLASH POINT:	-7°F (-22°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 temperature in closed containers under normal storage and handling conditions.

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INCOMPATIBILITIES:

Strong oxidizers

CONDITIONS TO AVOID:

Heat, sparks, flame, incompatible materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

Incomplete combustion can produce toxic fumes of carbon monoxide.

HAZARDOUS POLYMERIZATION:

Not expected to occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

Oral-Rat LD₅₀:28,710 mg/kg

Intraperitoneal-Rat LD_{Lo}:9100 mg/kg

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

No chronic effects are known.

OTHER DATA:

None.

12. ECOLOGICAL INFORMATION

Coho salmon young 96h LC₀ = 100 mg/l Goldfish 24h GLNK0069 LC₅₀ = 4 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

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 RCRA classification and the proper disposal method.

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US DOT PROPER SHIPPING NAME: Hexane
US DOT HAZARD CLASS: 3, Flammable Liquid
US DOT ID NUMBER: UN1208
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: Listed on TSCA inventory.

OTHER TSCA ISSUES: May be subject to export notification.

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>
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: 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>
n-Hexane	

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:**WHMIS CLASSIFICATION (CANADA):****Class B, Division 2****FOREIGN INVENTORY STATUS:**

EINECS # 203-777-6

16. OTHER INFORMATION**CURRENT ISSUE DATE:** June, 2000**PREVIOUS ISSUE DATE:** December, 1996, February, 1998**CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:**

Update to ANSI Standard. New header and footer information.

NFPA Classification	
Health:	1
Flammability:	3
Reactivity:	0

California Proposition 65 Label Statement

Hexane may contain Benzene in trace amounts (≤ 10 ppm, which is listed on one of the California Proposition 65 lists; 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."