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Petroleum Ether
Material Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

BACK TO KEY

PRODUCT NAME: Petroleum Ether

OTHER/GENERIC NAMES: Ligroin, Petroleum Spirits, Petroleum distillates, VM&P Naptha.

PRODUCT USE: Solvent

MANUFACTURER: Honeywell
Burdick & Jackson, Inc.
1935 S. Harvey Street
Muskegon, MI 49442

FOR MORE INFORMATION CALL:	IN CASE OF EMERGENCY CALL:
(Monday-Friday, 9:00am-4:30pm)	(24 Hours/Day, 7 Days/Week)
Product Safety Department	973-455-2000 (Honeywell, Morristown, NJ)
800.368.0050	1-800-424-9300 (Chemtrec)
231.726.3171	

2. COMPOSITION/INFORMATION ON INGREDIENTS

BACK TO KEY

INGREDIENT NAME	CAS NUMBER	WEIGHT %
Petroleum Ether	8032-32-4	~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

BACK TO KEY

EMERGENCY OVERVIEW:
Extremely Flammable. Clear volatile liquid. Moderately toxic by ingestion. Mildly toxic by inhalation.

POTENTIAL HEALTH HAZARDS

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

EYES: Irritant. Liquid and vapor concentration can cause redness and itching.

INHALATION: Can cause headache, nausea, drowsiness, vomiting, disorientation, and loss of consciousness. Can cause lung and kidney damage. A central nervous system depressant

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

DELAYED EFFECTS: Can cause damage to the respiratory tract, kidneys, and central nervous system.

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

BACK TO KEY

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: 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

BACK TO KEY

FLAMMABLE PROPERTIES

FLASH POINT:	55ºF (13ºC)
FLASH POINT METHOD:	Closed Cup
AUTOIGNITION TEMPERATURE:	550ºF (228ºC)
UPPER FLAME LIMIT (volume % in air):	5.9%
LOWER FLAME LIMIT (volume % in air):	1.1%

FLAME PROPAGATION RATE (solids): Not Applicable
OSHA FLAMMABILITY CLASS: IA

EXTINGUISHING MEDIA:
Carbon dioxide, dry chemical or alcohol foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Dangerous fire hazard when exposed to heat or flame. Vapor is heavier than air and danger of flashback exists.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:
Do not release runoff from fire fighting efforts to sewers or waterways. Fire may produce toxic fumes. Always wear Self Contained Breathing Apparatus.

6. ACCIDENTAL RELEASE MEASURES

BACK TO KEY

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

BACK TO KEY

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. Protective neoprene or rubber gloves and apron are recommended. Ensure contents are at or below room temperature before opening container(s).

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. 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

BACK TO KEY

ENGINEERING CONTROLS:
Provide general or local exhaust ventilation systems to maintain airborne concentrations below exposure limits. 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.

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:
Ensure that emergency eyewash stations and washing facilities are available in work area..

EXPOSURE GUIDELINES

INGREDIENT NAME	ACGIH TLV	OSHA PEL	OTHER LIMIT
Petroleum Ether	300 ppm	300 ppm	None

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

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:
None

9. PHYSICAL AND CHEMICAL PROPERTIES

BACK TO KEY

APPEARANCE:	Clear, colorless
PHYSICAL STATE:	Liquid
MOLECULAR WEIGHT:	Not determined
CHEMICAL FORMULA:	Mixture of paraffins, napthas, and other hydrocarbons.
ODOR:	Gasoline like odor
SPECIFIC GRAVITY (water = 1.0):	0.64 g/ml @ 20ºC
SOLUBILITY IN WATER (weight %):	0.04% @ 20°C
pH:	Not Applicable
BOILING POINT:	(35°C - 60°C):
MELTING POINT:	<-73ºC
VAPOR PRESSURE:	40 mm Hg @ 20ºC
VAPOR DENSITY (air = 1.0):	3
EVAPORATION RATE:	>10 COMPARED TO: Butyl Acetate = 1
% VOLATILES:	100%
FLASH POINT:	55°F (13°C)

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

10. STABILITY AND REACTIVITY

BACK TO KEY

NORMALLY STABLE? (CONDITIONS TO AVOID):
Normally stable in closed containers at room temperature under

usual and reasonable storage and handling conditions.

INCOMPATIBILITIES:
Strong Oxidizers.

CONDITIONS TO AVOID:
Oxidizers, Strong Acids, Heat and other ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition can produce carbon monoxide and other toxic gases.

HAZARDOUS POLYMERIZATION:
Not expected to occur.

11. TOXICOLOGICAL INFORMATION

BACK TO KEY

IMMEDIATE (ACUTE) EFFECTS:
Inhalation- Rat LC_{50}: 3400 ppm/4H
Intravenous-Mouse LD_{50}: 40 mg/kg

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:
Prolonged or repeated exposure may cause conjunctivitis.
Prolonged or repeated inhalation exposure can lead to pulmonary edema.

OTHER DATA: None

12. ECOLOGICAL INFORMATION

BACK TO KEY

Insufficient data to make determination.

13. DISPOSAL CONSIDERATIONS

BACK TO KEY

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.

14. TRANSPORT INFORMATION

BACK TO KEY

US DOT PROPER SHIPPING NAME:	Petroleum distillates n.o.s.
US DOT HAZARD CLASS:	3, Flammable Liquid
US DOT ID NUMBER:	UN1268
US DOT PACKING GROUP:	I
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

BACK TO KEY

TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: Listed

OTHER TSCA ISSUES: None

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: Acute, Fire, Reactive

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:

RTECS Number: KN5250000

WHMIS CLASSIFICATION (CANADA): Class B, Division 2

FOREIGN INVENTORY STATUS: Not Determined.

16. OTHER INFORMATION

BACK TO KEY

CURRENT ISSUE DATE: June, 2000
PREVIOUS ISSUE DATE: May, 1998, June, 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: 4
Reactivity: 0

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webmaster@honeywell.com

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