

## MATERIAL SAFETY DATA SHEET

\*\* 75-017 \*\*

PHILIP MORRIS USA  
ENVIRONMENTAL HEALTH AND SAFETY  
P.O. BOX 26603  
RICHMOND, VA. 23261  
(804) 274-2342

EMERGENCY CONTACTS:  
CHEMTREC  
(800) 424-9300  
OR  
WITHIN PHILIP MORRIS  
(804) 274-2416

## I. SUBSTANCE IDENTIFICATION

Substance: \*\* 75-017 \*\*

Trade Name/Synonyms: MFAC CONC.

Chemical Family: P.M. BLENDED FLAVOR

Molecular Formula: TRADE SECRET Mol. Wt.: UNKNOWN

NFPA Ratings: Health = 1 Fire = 3 Reactivity = 0

NFPA Scale (0-4): 0 = No Hazard, 4 = Highest Hazard

## II. COMPONENTS

Component Name	Percent	TLV/PEL	CAS No.
ETHYL ALCOHOL	> 1%	1000 PPM	64-17-5
PROPYLENE GLYCOL	> 1%	NONE	57-55-6
PROPRIETARY COMPONENT(S)	> 1%	NONE	N/A

Certain specific chemical identities of flavor ingredients are being withheld as trade secrets. Disclosure will be made in emergencies and in non-emergencies if the need to know is justified in a written request to Philip Morris USA. See manufacturer information for the correct address.

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III. PHYSICAL DATA

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Description: Opaque dark brown liquid with sweet alcohol odor.

Boiling Point:	UNKNOWN	Melting Point:	N/A
Specific Gravity: (H <sub>2</sub> O = 1.0)	APPROX. 1	Vapor Pressure: (mm Hg @ 20 deg C)	UNKNOWN
Solubility in Water:	COMPLETE		
Solvent Solubility:	SOLUBLE IN ALCOHOL, ETHER, etc.		
Vapor Density: (Air = 1)	UNKNOWN	pH:	UNKNOWN

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IV. FIRE AND EXPLOSION DATA

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## FIRE AND EXPLOSION HAZARD:

Dangerous fire and explosion hazard when exposed to heat, sparks, or flames. Vapors may travel to source of ignition and flash-back. Container may explode in extreme heat or fire. Be sure to assess the environmental impact of flushing alcohol-based flavors down the sewer (as in fire or explosion).

FLASH POINT: 73 Deg. F      AUTOIGNITION TEMP: approx. 700-800 Deg. F

NFPA FIRE RATING/CLASS: 3

FLAMMABILITY LIMITS IN AIR:	Lower = approx.	3.3 %
(% by volume)	Upper = approx.	19.0 %

FIREFIGHTING MEDIA:	WATER: YES	DRY CHEMICAL: YES
	CARBON DIOXIDE: YES	ALCOHOL FOAM: YES

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## FIREFIGHTING:

Firefighters are to use self-contained breathing apparatus with full-facepiece operated in pressure-demand mode. Alcohol flame front may not be visible. Alcohol fires may present an explosion hazard.

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V. TOXICITY

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LD50: Unknown

DERMAL LD50: Unknown

CARCINOGEN STATUS: NTP: No IARC: No OSHA REG.: No

EFFECTS OF ACUTE OVEREXPOSURE: Liquid may be irritating to skin and eyes. Breathing high concentrations of vapor in excess of the Permissible Exposure Limit (PEL) or Threshold Limit Value (TLV) may cause headache, nervousness, dizziness, tremors, fatigue, and necrosis.

EFFECTS OF CHRONIC OVEREXPOSURE: Prolonged skin contact may cause irritation. Ingestion of excessive amounts may cause liver damage. There is no evidence that repeated exposure to ethanol vapor results in cirrhosis of the liver.

OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS: No Effects Indicated.

ROUTE(S) OF ENTRY: INHALATION: YES SKIN: YES INGESTION: YES

The toxicity of this mixture has not been tested as a whole. The Hazard Communication Standard (29 CFR 1910.1200) requires that mixtures be assumed to present the same health hazards as do components that constitute at least 1 % of the mixture (0.1 % for carcinogens). Therefore, the following health information is for product ingredients which contribute to the known hazards of this mixture as required by OSHA.

## ORAL:

Ethyl Alcohol: Ingestion of excessive amounts may cause liver damage.

WARNING: the alcohol in this product contains a trace amount of denaturant. DO NOT DRINK.

Propylene Glycol: May cause diarrhea.

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Proprietary Components: Ingestion of one undiluted proprietary ingredient contained in this mixture, may cause severe irritation to the mucous membranes and throat.

## DERMAL:

Ethyl Alcohol: May be irritating to the skin.

Propylene Glycol: May be irritating to the skin.

Proprietary Components: Liquid may be severely irritating to the skin.

## EYES:

Ethyl Alcohol: May cause eye irritation.

Propylene Glycol: May cause eye irritation.

Proprietary Components: Liquid or vapor may cause eye irritation or eye damage.

## INHALATION:

Ethyl Alcohol: Vapor may be irritating to the mucous membranes, throat, and lungs.

Propylene Glycol: Vapor may be irritating to the mucous membranes, throat, and lungs.

Proprietary Components: Vapors may be severely irritating to the mucous membranes, throat and lungs. Breathing high concentrations may cause anesthetic effects.

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VI. FIRST AID

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EYE CONTACT: Wash out eyes thoroughly with large amounts of water for at least 15 minutes occasionally lifting the upper and lower lids. Get medical attention immediately.

INHALATION: Remove to fresh air. If breathing has stopped give

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artificial respiration. If breathing is difficult give oxygen.

SKIN: Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists, call a physician. Wash clothing before re-use.

INGESTION: Notify medical and emergency personnel immediately. Do not induce vomiting unless directed to do so by a physician.

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VII. REACTIVITY

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INCOMPATIBILITIES: Avoid contact with highly reactive oxidizers.

DECOMPOSITION: Thermal decomposition may produce CARBON MONOXIDE and/or CARBON DIOXIDE.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID:

Heat: YES    Open Flames: YES    Sparks: YES    Other (Specify): N/A

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VIII. STORAGE - DISPOSAL

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STORAGE: Keep containers tightly closed, store in a cool, dry area, away from heat, flames, and direct sunlight. Electrically bond and ground metal containers during transfer of this material.

DISPOSAL: Waste should be packaged, labeled, transported, disposed of, or reclaimed in conformance with applicable laws and regulations using good engineering practices. Disposal should be done at a permitted waste disposal facility and

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can be by incineration, fuels blending, or solvent recovery. Reclaim where possible. Contact the Philip Morris Employee and Environmental Protection Department for disposal assistance and approvals: (804) 274 - 3467.

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IX. SPILLS AND LEAKS

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Notify supervisor of leaks and spills. Remove sources of heat and ignition. Keep unnecessary people away from area. Isolate area and deny entry to non-emergency personnel. Provide explosion-proof ventilation. Contain spill with spill pillows or other non-flammable absorbent (sand). Activate the PM USA EMERGENCY MANAGEMENT PLAN if spill occurs on Philip Morris property. Be sure to assess the environmental impact of flushing alcohol-based materials down the sewer (as in a fire or explosion).

REPORTABLE QUANTITY: RQ not listed

EPA RCRA NUMBER/HAZARD CLASS: If a waste, identify as D001, IGNITABLE HAZARDOUS WASTE.

WARNING: Serious accidents have resulted from misuse of "emptied" containers (drums, 1 & 5 gallon pails, etc.). Containers must be either professionally reconditioned for re-use or properly disposed of by certified firms to reduce the possibility of an accident. Disposal of containers must be in accordance with applicable laws and regulations. "Empty" drums shall not be given to individuals.

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X. SPECIAL PROTECTION INFORMATION

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VENTILATION: Ensure ventilation is adequate to maintain ALCOHOL VAPOR concentrations below 500 ppm averaged over 8 hours (TWA).

RESPIRATOR: Respiratory protection is generally not required. If vapor concentrations exceed the TLV/PEL for ethyl alcohol, then a NIOSH-MSHA approved respirator should be worn. Chemical cartridge full-face respirators are to be worn when air concentrations are

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above the TLV/PEL and below 50 times the TLV/PEL. Supplied-air or self-contained breathing apparatus are to be worn when the ethyl alcohol concentrations exceed 50 times the TLV/PEL.

**FIREFIGHTING:** Firefighters are to use self-contained breathing apparatus with full-facepiece operated in a pressure-demand mode.

**EYE PROTECTION:** Employees must wear chemical safety goggles or full-faceshield when dispensing this product or if the possibility of splashing exists. Where there is any possibility that an employee's eyes may be exposed to this product, the employer shall provide an eye-wash fountain for emergency use within the immediate work area.

**GLOVES:** Employees must wear PVC, Neoprene, or Butyl Rubber gloves where the possibility of skin contact exists.

**WORK PRACTICES:** Avoid repeated or prolonged skin contact. Use non-sparking tools and equipment.

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**XI. MATERIAL SHIPPING INFORMATION**

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**DEPARTMENT OF TRANSPORTATION REGULATIONS (AIR AND TRUCK):**

Proper Shipping Name:	Extract, Liquid, Flavoring
Hazard Class:	Flammable Liquid (Class 3)
UN Number:	UN1197
DOT Label(s):	Flammable Liquid
Emergency Response Guide No:	26

**INTERNATIONAL AIR TRANSPORTATION ASSOCIATION (IATA):**

Proper Shipping Name:	Extract, Flavouring, Liquid
Hazard Class:	Flammable Liquid (Class 3)

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UN Number: UN1197  
Hazard Label(s): Flammable Liquid

## INTERNATIONAL MARITIME ORGANIZATION (IMO) (VIA OCEAN):

Proper Shipping Name: Extract, Flavouring, Liquid  
Hazard Class: Flammable Liquid (Class 3)  
UN Number: UN1197  
Hazard Label(s): Flammable Liquid

REFER TO THE SPECIFIC PACKAGING INSTRUCTIONS FOR EACH FORM OF  
TRANSPORTATION.

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XII. REFERENCES

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1. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS; N.I. SAX; VAN NOSTRAND; NEW YORK; 5TH ED.; 1984
2. Ingredient Material Safety Data Sheets (MSDS); Various Manufacturers; Current Update.
3. Flavor/Fragrance Ingredient Data Sheets (FFIDS); compiled by the Flavor Extract Manufacturers' Association of the United States, the Research Institute for Fragrance Materials (RIFM), Inc., and the Fragrance Materials Association of the United States; 1985, 1986, 1987, 1988, 1989.
4. RTECS - U.S. Department of Health and Human Services (NIOSH), SilverPlatters' "CHEM-BANK" (Dec. 1989), Boston, Mass.

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XIII. PRECAUTIONARY LABELING

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MFAC CONC.

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P.M. MSDS NO.: 016521

CONSULT THE CORRESPONDING MSDS FOR FURTHER  
HAZARD INFORMATION AND INSTRUCTIONS

## WARNING - FLAMMABLE LIQUID (Flash Point &lt;100 Deg. F)

Prolonged inhalation of vapors may cause respiratory irritation, dizziness, and nervous system effects. Prolonged skin contact may cause skin irritation. Ingestion may cause liver damage.  
DO NOT DRINK.

## FIRST AID

Skin Contact: Flush with running water. Eyes: Flush with running water for 15 minutes. Inhalation: Remove victim to fresh air.

PHILIP MORRIS USA  
P.O. BOX 26603  
RICHMOND, VA. 23261

EMERGENCY TELEPHONE  
CHEMTREC  
(800) 424-9300  
OR WITHIN PHILIP MORRIS  
(804) 274-2416

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XIV. OTHER INFORMATION

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This product contains no materials which are subject to the report requirements of Section 313 of Title III of the Superfund Amendments Reauthorization Act of 1986 and 40 CFR part 372.

The notation "N/A" as used in this Material Safety Data Sheet indicates that data for this material is either not available or not applicable for this material.

Supersedes PM MSDS Dated: N/A

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XV. GLOSSARY

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ACGIH: American Conference of Governmental Industrial Hygienists

D/M : Direct Material

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DOT : U.S. Department of Transportation

EPA : U.S. Environmental Protection Agency

ID : Identification

MCG : Microgram

MG : Milligram

MSHA : Mine Safety and Health Administration of the U.S. Department of  
the Interior

NFPA : National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health of the  
U.S. Department of Health and Human Services

PEL : Permissible Exposure Limit

PM : Philip Morris USA

PPM : Parts Per Million

RCRA : Resource Conservation and Recovery Act

TLV : Threshold Limit Value

TWA : Time Weighted Average

UN : United Nations

NFPA RATINGS: Health      0 = Ordinary Combustible Hazards in a Fire  
                                 1 = Slightly Hazardous  
                                 2 = Hazardous  
                                 3 = Extreme Danger  
                                 4 = Deadly

                                 Flammability    0 = Will Not Burn  
   1 = Will Ignite if Pre-heated  
   2 = Will Ignite if Moderately Heated  
   2 = Will Ignite if Moderately Heated  
   3 = Will Ignite at Most Ambient Conditions  
   4 = Burns Readily at Ambient Conditions

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USA

MSDS NO. : 016521-71  
EFF. DATE: 10/21/93

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Reactivity      0 = Stable and Not Reactive with Water  
                  1 = Unstable if Heated  
                  2 = Violent Chemical Change  
                  3 = Shock and Heat May Detonate  
                  4 = May Detonate Spontaneously

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