

MATERIAL SAFETY DATA SHEET

ARCOPAC™ OIL 90

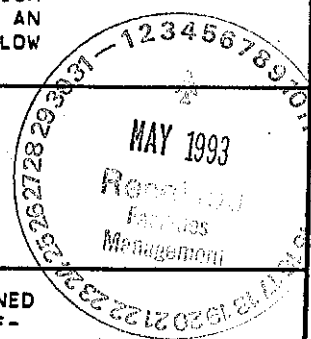
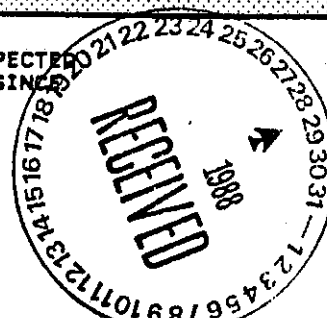
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MSDS No.
APPC 474Rev. Date
07/19/85

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to employees, customers, and users of this product

LYONDELL PETROCHEMICAL COMPANY
DIVISION OF ATLANTIC RICHFIELD COMPANY
12000 LAWDALE AVENUE
P.O. BOX 2451
HOUSTON, TEXAS 77001

I. General		
Trade Name	ARCOPAC OIL 90	Telephone Numbers EMERGENCY 800/424-9300 CHEMTREC 713/475-4894 COMPANY CUSTOMER SERVICE 713/475-4215 INFO ONLY
Other Names	TECHNICAL WHITE MINERAL OIL	
Chemical Family	PETROLEUM HYDROCARBONS	DOT Hazardous Materials Proper Shipping Name NOT DEFINED AS A "HAZARDOUS MATERIAL"
Generic Name	WHITE MINERAL OIL (PETROLEUM)	DOT Hazard Class NOT REGULATED
CAS No.	8042-47-5*	Company ID No. 1639412377 UN/NA ID No. NOT REGULATED
II. CAUTION Summary of Hazards		
<p>NOT INTENDED FOR INTERNAL USE! NO SIGNS OR SYMPTOMS OF ADVERSE HEALTH EFFECTS ARE EXPECTED. HOWEVER, IF INGESTION OCCURS, DO NOT INDUCE VOMITING SINCE ASPIRATION INTO THE LUNGS MAY CAUSE LIPOID PNEUMONIA.</p>		
III. Fire and Explosion		
Flash Point (Method)	Autoignition Temperature (Method)	Flammable Limits (% Vol. in Air)
AP 350° F (D-92) SEE "FIRE & EXPLOSION HAZARDS"	AP 650° F (EST.)	Lower N/AP Upper N/AP
Fire and Explosion Hazards	SLIGHTLY COMBUSTIBLE! OSHA/NFPA CLASS-IIIB COMBUSTIBLE LIQUID. WHEN HEATED ABOVE ITS FLASH POINT, THIS MATERIAL WILL RELEASE FLAMMABLE VAPORS WHICH CAN BURN IN THE OPEN OR BE EXPLOSIVE IN CONFINED SPACES IF EXPOSED TO AN IGNITION SOURCE. MISTS OR SPRAYS MAY BE FLAMMABLE AT TEMPERATURES BELOW THE NORMAL FLASH POINT. KEEP AWAY FROM EXTREME HEAT AND OPEN FLAME.	
Extinguishing Media	DRY CHEMICAL AND CARBON DIOXIDE. FOAM AND WATER FOG ARE EFFECTIVE, BUT MAY CAUSE FROTHING.	
Special Firefighting Procedures	FOR FIRES INVOLVING THIS MATERIAL, DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT. THIS MAY INCLUDE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF COMBUSTION PRODUCTS AND OXYGEN DEFICIENCIES. IF FIREFIGHTERS CANNOT WORK UPWIND TO THE FIRE, RESPIRATORY PROTECTIVE EQUIPMENT MUST BE WORN. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER.	



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IV. Health Hazards

Summary of Acute Hazards NOT EXPECTED TO PRESENT A SIGNIFICANT HEALTH HAZARD UPON SHORT-TERM EXPOSURE.

ROUTE OF EXPOSURE	SIGNS AND SYMPTOMS	Primary Route(s)
Inhalation	NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE.	<input type="checkbox"/>
Eye Contact	NO SIGNIFICANT SIGNS OR SYMPTOMS INDICATIVE OF ANY ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR.	<input type="checkbox"/>
Skin Absorption	NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE.	<input type="checkbox"/>
Skin Irritation	NO SIGNIFICANT SIGNS OR SYMPTOMS INDICATIVE OF ANY ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR.	<input type="checkbox"/>
Ingestion	NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE.	<input type="checkbox"/>

Summary of Chronic Hazards and Special Health Effects NO SIGNIFICANT SIGNS OR SYMPTOMS INDICATIVE OF ANY ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR.

V. Protective Equipment and Other Control Measures

Respiratory	NONE IS NEEDED UNDER ANTICIPATED USE CONDITIONS WITH ADEQUATE VENTILATION. IF EXPOSURE EXCEEDS THE OCCUPATIONAL EXPOSURE LIMITS, FOLLOW OSHA STANDARDS OR EQUIVALENT AND WEAR PROPER NIOSH/MSHA-APPROVED RESPIRATORY EQUIPMENT.
Eye	SAFETY GLASSES SHOULD BE ADEQUATE PROTECTION UNDER ANTICIPATED CONDITIONS OF USE. IN THE LIKELIHOOD OF SPLASHING OR SPRAYING OF HOT MATERIAL (GT 125°F.), WEAR GOGGLES AND/OR FACE SHIELD. HAVE EYE WASH WATER AVAILABLE.
Skin	NO SPECIAL SKIN PROTECTION OTHER THAN GOOD PERSONAL HYGIENE PRACTICE IS RECOMMENDED UNDER ANTICIPATED CONDITIONS OF USE.
Engineering Controls	USE ADEQUATE VENTILATION TO KEEP OIL MISTS OF THIS MATERIAL BELOW APPLICABLE STANDARD(S). (SEE SECTION VI. - "OCCUPATIONAL EXPOSURE LIMITS".)
Other Hygienic and Work Practices	WASH HANDS WITH PLENTY OF SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USE OF TOILET FACILITIES. DO NOT USE GASOLINE, SOLVENTS, KEROSENE, OR HARSH ABRASIVE SKIN CLEANERS FOR WASHING EXPOSED SKIN AREAS. TAKE A SHOWER AFTER WORK IF GENERAL CONTACT OCCURS. REMOVE OIL-SOAKED CLOTHING AND LAUNDRY BEFORE REUSE.

VI. Occupational Exposure Limits

Substance	Source	Date	Type	Value/Units	Time
OIL MIST, MINERAL	ACGIH	1985	TLV	5 MG/M3	8 HRS
			STEL	10 MG/M3	15 MIN
	OSHA	1985	PEL	5 MG/M3	8 HRS



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VII. Emergency and First Aid

Inhalation	VAPORIZATION IS NOT EXPECTED AT AMBIENT TEMPERATURES, BUT SHOULD INHALATION OCCUR, IMMEDIATELY REMOVE PERSONNEL FROM CONTAMINATED AREA TO FRESH AIR. OBTAIN MEDICAL ATTENTION IF THERE ARE SIGNS OF BREATHING DIFFICULTIES.
Eye Contact	FLUSH EYES WITH CLEAN, LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE EYELIDS. IF PAIN OR REDNESS PERSISTS AFTER FLUSHING, OBTAIN MEDICAL ATTENTION.
Skin Contact	REMOVE BY WIPING; THEN WASH SKIN THOROUGHLY WITH PLENTY OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND THOROUGHLY CLEAN BEFORE REUSE. DISCARD CONTAMINATED LEATHER GLOVES AND SHOES.
Ingestion	NO SIGNIFICANT SIGNS OR SYMPTOMS INDICATIVE OF ANY ADVERSE HEALTH EFFECTS ARE EXPECTED; BUT DO NOT INDUCE VOMITING, SINCE ASPIRATION INTO THE LUNGS MAY CAUSE LIPOID PNEUMONIA.
Emergency Medical Treatment Procedures	SEE ABOVE PROCEDURES.

VIII. Spill and Disposal

Precautions if Material is Spilled or Released	CONTAIN SPILL AND PREVENT FROM ENTERING SEWERS AND OTHER WATER BODIES, IF POSSIBLE. SAFELY STOP FLOW OF SPILL. SPILL MAY CREATE SLIPPING HAZARDS. EVACUATE ALL NON-ESSENTIAL PERSONNEL FROM THE SPILL AREA. IN URBAN AREAS, CLEANUP AS SOON AS POSSIBLE; IN NATURAL ENVIRONMENTS, CLEANUP ON ADVICE FROM ECOLOGISTS. THIS MATERIAL WILL FLOAT ON WATER. ABSORBANT MATERIALS AND PADS CAN BE USED. COMPLY WITH ALL APPLICABLE LAWS. SPILLS MAY NEED TO BE REPORTED TO THE NATIONAL RESPONSE CENTER (800/424-8802). THIS MATERIAL HAS LOW PROBABILITY OF TOXIC IMPACTS. ONLY LIMITED AND LOCALIZED DAMAGE WOULD BE EXPECTED.
Waste Disposal Methods	MAXIMIZE PRODUCT RECOVERY FOR REUSE OR RECYCLING. CONDITIONS OF USE MAY CAUSE THIS MATERIAL TO BECOME A "HAZARDOUS WASTE" AS DEFINED BY STATE OR FEDERAL LAWS. USE APPROVED TREATMENT, TRANSPORTERS, AND DISPOSAL SITES IN COMPLIANCE WITH ALL LAWS. IF SPILL IS INTRODUCED INTO A WASTEWATER SYSTEM, THE CHEMICAL AND BIOLOGICAL OXYGEN DEMAND WILL LIKELY INCREASE. SPILL MATERIAL IS BIODEGRADABLE IF GRADUALLY EXPOSED TO MICROORGANISMS. POTENTIAL TREATMENT AND DISPOSAL METHODS INCLUDE LAND FARMING, INCINERATION, AND LAND DISPOSAL, IF PERMITTED.

IX. Components (This may not be a complete list of components)

Component Name	CAS No.	Carcinogen##	Composition amount (Vol.) (See Qualification on Page 4)
WHITE MINERAL OIL (PETROLEUM)	8042-47-5	N/AP EQ	100 PERCENT

##Listed By: 1 = NTP, 2 = IARC, 3 = OSHA, 4 = Other

Compositions given are typical values, not specifications.

X. Physical and Chemical Data

Boiling Point GT 550° F	Viscosity Units, Temp. (Method) AP 85 SUS AT 100° F (D2161)	Dry Point N/AP
Freezing Point N/AP	Vapor Pressure (MM HG AT 70° F) LT 0.1	Volatile Characteristics NEGLIGIBLE
Specific Gravity (H ₂ O = 1 at 39.2° F) AP 0.84	Vapor Sp. Gr. (Air = 1.0 at 60° - 90° F) GT 10	Solubility in Water NEGLIGIBLE
Hazardous Polymerization NOT EXPECTED TO OCCUR	Other Chemical Reactivity N/P	pH N/AP
Stability STABLE		

Other Physical and Chemical Properties TYPICAL VISCOSITY INDEX = 100 (ASTM D-2270).
POUR POINT TEMPERATURE = LT 15° F. (ASTM D-97).

Appearance and Odor COLORLESS AND ODORLESS LIQUID.

Conditions to Avoid EXTREME HEAT AND OPEN FLAME.

Materials to Avoid STRONG ACIDS, ALKALIES, AND OXIDIZERS SUCH AS LIQUID CHLORINE AND OXYGEN.

Hazardous Decomposition Products BURNING OR EXCESSIVE HEATING MAY PRODUCE CARBON MONOXIDE AND OTHER HARMFUL SUBSTANCES.

XI. Additional Precautions

Handling, Storage and Decontamination Procedures

KEEP CONTAINERS CLOSED. STORE AND HANDLE SO AS TO PREVENT CONTAMINATION FROM ANY SOURCE, ESPECIALLY WHEN THIS MATERIAL WILL BE USED IN APPLICATIONS COVERED BY FOOD AND DRUG ADMINISTRATION REGULATIONS 21 CFR 178.3620(B)(2).

General Comments

THIS MATERIAL IS A "PETROLEUM DISTILLATE", AS DEFINED BY 16 CFR 1500.14(B)(3) AND 1500.83(A)(13), WHICH REQUIRES SPECIAL LABELING PURSUANT TO THE FEDERAL HAZARDOUS SUBSTANCES ACT AND RELATED STATUTES AND REGULATIONS, IF IT IS DISTRIBUTED IN A MANNER INTENDED, OR PACKAGED IN A FORM SUITABLE, FOR USE IN THE HOUSEHOLD OR BY CHILDREN.

THIS PRODUCT IS MANUFACTURED TO MEET FOOD AND DRUG ADMINISTRATION REQUIREMENTS FOR "TECHNICAL WHITE MINERAL OIL" AS DEFINED BY 21 CFR 178.3620(B)(1). IT IS SUITABLE FOR USE AS A COMPONENT OF NON-FOOD ARTICLES INTENDED FOR USE IN CONTACT WITH FOOD, OR AS A LUBRICANT ADDED TO FOOD INDIRECTLY AS A RESULT OF INCIDENTAL CONTACT WITH CONTAINERS OR EQUIPMENT, SUBJECT TO ALL THE PROVISIONS LISTED UNDER 21 CFR 178.3620. THIS PRODUCT CONTAINS APPROXIMATELY 10 PPM DL-ALPHA-TOCOPHEROL AS A STABILIZER.

SOME OF THE INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE MIXTURE ITSELF.

--- Note --- Qualifications: EQ = Equal AP = Approximately N/P = No Applicable Information Found
LT = Less Than UK = Unkown N/AP = Not Applicable
GT = Greater Than TR = Trace N/DA = No Data Available

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