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ARCO PRODUCTS CO DIV OF ATLANTIC RICHFIELD CO -- NAVAL DISTILLATE -- 9140-00-273-2377

Product ID:NAVAL DISTILLATE MSDS Date:07/07/1998 FSC:9140 NIIN:00-273-2377 Status Code:A MSDS Number: CLJTQ === Responsible Party === Company Name: ARCO PRODUCTS CO DIV OF ATLANTIC RICHFIELD CO Address:333 S HOPE ST Box:512570 City:LOS ANGELES State:CA ZIP:90071-0570 Country:US Info Phone Num:213-486-0773/800-322-2726 INFO Emergency Phone Num:213-222-3212 Resp. Party Other MSDS Num.: APRC508 VER. 5 CAGE:9V333 === Contractor Identification === Company Name: ARCO PRODUCTS CO DIV OF ATLANTIC RICHFIELD CO Address:333 S HOPE ST Box:512570 City:LOS ANGELES State:CA ZIP:90071-0570 Country:US Phone:213-486-0773/800-322-2726 INFO CAGE:9V333 Ingred Name: HYDROCARBONS W/BOILING PT OF 325F TO 698F CAS:68334-30-5 С ode:F Fraction by Wt: 100% Ingred Name:NAPHTHALENE CAS:91-20-3 RTECS #:0J0525000 Fraction by Wt: 1-2% OSHA PEL:15 MG/M3;10 PPM ACGIH TLV:15 MG/M3;10 PPM ACGIH STEL:79 MG/M3;15 PPM EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS Ingred Name:NAPHTHALENE, 1-METHYL-CAS:90-12-0 RTECS #:QJ9630000 Fraction by Wt: 0.1-1% Ingred Name:NAPHTHALENE, 2-METHYL-CAS:91-57-6

Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:STODDARD SOLVENT CAS:8052-41-3 RTECS #:WJ8925000 OSHA PEL:100 PPM ACGIH TLV:525 MG/M3;100 PPM

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:LONG TERM TESTS PRODUCED KIDNEY DAMAGE AND SKIN TUMORS ON LABORATORY ANIMALS.RESPIRATORY IRRITATION AND REVERSIBLE PULMONARY EFFECTS ARE ASSOCIATED WITH EXPOSURE TO DIESEL EXHAUST.I

NHALATION/INGESTION : AT CONCENTRATIONS > THAN THE RECOMMENDED EXPOSURE LIMITS, CAN CAUSE IRRITATION OF NOSE, THROAT, LUNGS, HEADACHE, DIZZINESS, LOSS OF COORDINATION, FATIGUE, NAUSEA, GASTROINTESTINAL PROBLEMS AND LABORE D BREATHING. EYE: NOT EXPECTED TO CAUSE PROLONGED OR SIGNIFICANT EYE DAMAGE. SKIN: MODERATE SKIN IRRITATION. EXPOSURE TO SUNLIGHT MAY INCREASE THE DEGREE OF SKIN IRRITATION.

Effects of Overexposure:IRRITATION OF NOSE, THROAT, LUNGS, HEADACHE, DIZZINES

S, LOSS OF COORDINATION, FATIGUE, NAUSEA, LABORED BREATHING.VOMITING,DIARRHEA AND RESTLESNESS.PROLONGED/REPEATED SKIN EXPOSURE, INHALATION OR INGES TION OF THIS MATERIAL MAY RESULT IN ADVERSE DERMAL OR SYSTEMIC EFFECT.

Medical Cond Aggravated by Exposure:SKIN: IRRITATION. INGESTION: IRRITATION OF MOUTH, THROAT AND GASTROINTESTINAL TRACT, NAUSEA, VOMITING, DAIRRHEA, RESTLESSNESS. HEADACHE, DIZZINESS, DROWSINESS, LOSS OF COORDINATION, FATIGUE, NAUSEA

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First Aid:INHALTION: IMMEDIATELY MOVE PERSONNEL TO AREA OF FRESH AIR. FOR RESPIRATORY DISTRESS, GIVE OXYGEN, ADMINISTER CPR IF NEEDED.OBTAIN MEDICAL ATTENTION. EYE: FLUSH EYES WITH CLEAN LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES. IF PAIN OR IRRITATION PERSISTS AFTER FLUSHING, OBTAIN MEDICAL ATTENTION. SKIN: PROMPTLY REMOVE CONTAMINATED CLOTHING. THOROUGHLY WASH AFFECTED SKIN WITH SOAP AND WATER. IF THERE A RE SIGNS OR SYMP TOMS OF IRRITATION, OBTAIN MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING SINCE ASPIRATION INTO THE LUNGS MAY CAUSE CHEMICAL PNEUMONIA.OBTAIN MEDICAL ATTENTION.

Flash Point Method: PMCC Flash Point:=60.C. 140.F Autoignition Temp:=257.2C, 495.F Lower Limits:0.6 Upper Limits:7.5 Extinguishing Media: FOAM, DRY CHEMICAL, HALON, CARBON DIOXIDE, WATER FOG, WATER AND WATER FOG MAY BE USED TO COOL THE FIRE BUT MAY NOT EXTINGUISH THE FIRE. Fire Fighting 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 HAZARDOU S EFFECTS OF COMBUSTION PRODUCTS AND OXYGEN DEFICIENCIES. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER. Unusual Fire/Explosion Hazard: MODERATELY COMBUSTIBLE! WHEN HEATED ABOVE THE FLASH POINT, THIS MATERIAL RELEA SE FLAMMABLE VAPORS WHICH, IF EXPOSED TO AN IGNITION SOURCE, CAN BURN IN THE OPEN OR BE EXPLOSIVE IN CONFINED SPACES. MIST S OR SPRAYS MAY BE FLAMMABLE AT TEMPERATURES BELOW THE NORMAL FLASH POINT. 

Spill Release Procedures:CONTAIN SPILL, EVACUATE NON-ESSENTIAL PERSONNEL, AND SAFELY STOP FLOW. ON HARD SURFACES, SPILLED MATERIAL MAY CREATE A SLIPPING HAZARD.EQUIP CLEANUP CREWS WITH PROPER PROTECTIVE EQUIPMEN T AND ADVISE OF HAZARDS CLEAN UP BY RECOVERING

T AND ADVISE OF H AZARDS.CLEAN UP BY RECOVERING AS MUCH SPILLED OR CONTAMINATED MATERIALS AS POSSIBLE AND PLACING INTO CLOSED CONTAINERS.CONSULT WITH AN ENVIRONMENTAL PROFESSIONAL FOR THE FEDERAL,STATE AND LOCALCLEANUP

Handling and Storage Precautions: SPECIAL SLOW LOAD PROCEDURES FOR "SWITCH LOADING" MUST BE FOLLOWED TO AVOID THE STATIC IGNITION HAZARD THAT CAN EXIST WHEN THIS MATERIAL IS LOADED INTO TANKS PREVIOUSLY CONTAINING GASOLINE OR OTHER LO W FLASH POINT PRODUCTS. KEEP CONTAINERS CLOSED AND AWAY FROM HEAT& IGNITION SOURCES! Other Precautions:EMPTY COMTAINERS RETAIN SOME LIGUID AND VAPOR RESIDUES, AND HAZARD PRECAUTIONS MUST BE OBSERVED WHEN HANDLING EMPTY CONTAINERS.WARNING:USE OF ANY HYDROCARBON FUEL IN SPACES WITHOUT ADEGUATE VENTILATIO N MAY RESULT IN GENERATION OF HAZARDOUS LEVELS OF COMBUSTION PRODUCTS AND INADEGUATE OXYGEN LEVELS F OR BREATHING.

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==== Exposure Controls/Personal Protection ==========

Respiratory Protection: NIOSH/MSHA APPROVED AIR-PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS MAY EXCEED THE EXPOSURE LIMITS. THE PROTECTION PROVIDED BY AIR-PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE. Ventilation: USE ADEQUATE VENTILATION TO KEE **P VAPOR & MIST** CONCENTRATIONS OF THIS MATERIAL BELOW THE OCCUPATIONAL EXPOSURE LIMITS.ELECTRICAL EQUIPMENT SHOULD COMPLY WITH NEC Protective Gloves: CLEAN IMPERVIOUS GLOVES Eye Protection: CHEMICAL-TYPE GOGGLES OR FACE SHIELD Other Protective Equipment: CLEAN IMPERVIOUS CLOTHING SUCH AS GLOVES, APRON, BOOTS AND FACIAL PTOTECTION. NITRILE, NEOPRENE, VITRON PROTECTIVE CLOTHING MATERIAL RECOMMENDED. IMPREVIOUS BOOTS&OIL RESISTANT COATED TYVEK SUIT. Work Hygienic Practices: USE GOOD PERSONNEL HYGIENE PRACTICES. IN CASE OF SKIN CONTACT, WASH WITH MILD SOAP AND WATER OR WATERLESS HAND CLEANER. WASH HANDS AND OTHER EXPOSED AREAS THOROUGHLY BEFORE EATING, DRINKING, SMOKING. Supplemental Safety and Health SYMONYMS: DIESEL FUEL OIL, MARINE DIESEL (FORMER NAME) (MEETS MILITARY SPECIFICATION MIL-F-16884G), PETROLEUM DISTILLATE FUEL, F76.

HCC:V6 Boiling Pt:B.P. Text:350-725F Melt/Freeze Pt:=-9.4C,

15.F Vapor Pres:0.04@100F(REID-PSIA) Spec Gravity: AP 0.86 pH:N/AP Viscosity: AP 3@100F (D-445) Solubility in Water:NEGLIGIBLE Appearance and Odor: LIGHT YELLOW TO AMBER-COLORED LIQUID; KEROSENE ODOR. Percent Volatiles by Volume:SLIGHT Stability Indicator/Materials to Avoid:YES STRONG ACIDS, ALKALIS, AND OXIDIZERS SUCH AS LIQUID CHLORINE AND OXYGEN. Stability Condition to Avoid: HEAT AND IGNITION SOURCES. Hazardous Decomp osition Products: BURNING OR EXCESSIVE HEATING MAY PRODUCE CARBON MONOXIDE AND OTHER HARMFUL GASES OR VAPORS INCLUDING OXIDES OF SULFUR AND NITROGEN. Toxicological Information: TOXICITY STUDIES ON THIS MATERIAL RESULTED IN LC50 VALUES GREATER THAN 4.8 MG/L INDICATING A LOWER LEVEL OF TOXICITY. HOWEVER DURING EXPOSURE THE MATERIAL CAUSED LABORED BREATHING, GASPING, EYES CLOSED, REDUCED ACTIVITY, HUNCHED APPEA RANCE.NASAL DISCHARGE INCOORDINATION AND TERMORS.EXPOSURE TO DIESEL EXHAUST MAY RESULT IN REVERSIBLE SYMPTOMS, SUCH AS RESPIRATORY TRACT IRRITATION (WHEEZING, CHEST TIGHT NESS), MUCOUS

MEMBRANE IRRITATION, CNS EFFECTS (HEADACHE AND LIGHTHEADEDNESS), NAUSEA, VOMITING AND HEARTBURN. NO EYE CONTACT IRRITATION HAS BEEN REPORTED. SKIN CONTACT STUDIES RESULTED IN MODERATE SKIN I RRITATION. INGESTION: CAUGH, PNEUMONIA.

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Ecological:NOT AVAILABLE PER MSDS

Waste Disposal Methods:MAXIMIZE RECOVERY FOR REUSE OR RECYCLING.CONSULT W/ENVIRONMENTAL PROFESSIONAL TO DETERMINE IF STATE OR FEDERAL REGULATIONS WOULD CLASSIFY SPILLED OR CONTAMINATED MATERIALS AS A HAZARDOUS WASTE.USE ONL Y APPROVED TRANSPORTERS,RECYCLERS,TREATMENT,STORAGE OR DISPOSAL FACILITIES.COMPLY WITH ALL FEDERAL,S TATE AND LOCAL LAWS PERTAINING TO WASTE MANA

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Transport Information:UN PROPER SHIPPING NAME: FUEL OIL NO.2. UN HAZARD CLASS 3. UN NUMBER: NA 1993. UN PACKING GROUP: PGIII

SARA Title III Information:DELAYED (CHRONIC) HEALTH HAZARD, IMMEDIATE (ACUTE) HEALTH HAZARD, FIRE HAZARD. SECTION 313, THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS ESTABLI

SHED BY SARA TITL E III, COMPONENT NAME: NAPHTHALENE.

- Federal Regulatory Information:TSCA: ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. CERCLA: NO CHEMICALS IN THIS PRODUCT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF CERCLA. CALIFORNIA SAFE DRINKING WATER ACT: CHE MICALS KNOWN TO THE STATE TO CAUSE CANCER, BIRTH DEFECTC, OR OTHER REPRODUCTIVE HARM ARE FOUND IN GASOLINE, CRUDE OIL, AND MANY PETROLEUM PRODUCTS AND THEIR VAPORS. THIS PRODUCT MAY CONT
- AIN TRACE AMOU NT OF BENZENE, TOLUENE WHICH ARE LISTED BY THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
- State Regulatory Information:CALIFORNIA SAFE DRINKING WATER ACT: CHEMICALS KNOWN TO THE STATE TO CAUSE CANCER, BIRTH DEFECTC, OR OTHER REPRODUCTIVE HARM ARE FOUND IN GASOLINE, CRUDE OIL, AND MANY PETROLEUM PRODUCTS AND THEIR VAPO RS. THIS PRODUCT MAY CONTAIN TRACE AMOUNT OF BENZENE, TOLUENE WHICH ARE LISTED BY THE STATE OF CAL
- IFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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