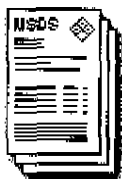


Material
Safety
Data
Sheet



Common Name: SUBARU AUTOMATIC TRANSMISSION FLUID/POWER STEERING FLUID
Manufacturer: APOLLO AMERICA
Revision: 8/4/1999

Hazard Ratings

	- NFPA	Health -	Flammability -	Reactivity -	Other -
	- HMIS	Health -	Flammability -	Reactivity -	PPE -

MATERIAL SAFETY DATA SHEET

MATERIAL NAME:
SUBARU AUTOMATIC TRANSMISSION FLUID/POWER STEERING FLUID

P/N: SOA868V9240

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: MIXTURE

PRODUCT USE: AUTOMATIC TRANSMISSION/POWER STEERING FLUID

MANUFACTURER INFORMATION: APOLLO AMERICA
701 PORT ROAD
JEFFERSONVILLE, IN 47130

PHONE: (812) 284-3300

FAX: (812) 284-6840

EMERGENCY #: 1-800-424-9300 (CHEMTREC)

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	COMPONENT	PERCENT
64741-89-5	PETROLEUM DISTILLATES, SOLVENT-REFINED LIGHT PARAFFINIC	50-70
64741-88-4	PETROLEUM DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC	20-40

COMPONENT INFORMATION/INFORMATION ON NON-HAZARDOUS COMPONENTS

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

TOXIC FUMES MAY BE RELEASED IN CASE OF FIRE. FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING AND SELF CONTAINED BREATHING APPARATUS. IF HEATED ABOVE ITS FLASHPOINT IN THE PRESENCE OF AIR, PRODUCT CAN SUPPORT COMBUSTION. THIS PRODUCT MAY CAUSE IRRITATION TO THE SKIN.

LABEL INFORMATION:**WARNING:**

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR CONTAINER BECAUSE PRODUCT CAN IGNITE. COMBUSTIBLE LIQUID. LAUNDRY OR DISCARD SOILED CLOTHES. AVOID PROLONGED CONTACT.

POTENTIAL HEALTH EFFECTS: EYES:

THIS PRODUCT MAY CAUSE IRRITATION TO THE EYES.

POTENTIAL HEALTH EFFECTS: SKIN:

PROLONGED AND/OR REPEATED SKIN CONTACT WITH THIS PRODUCT MAY CAUSE IRRITATION/DERMATITIS.

POTENTIAL HEALTH EFFECTS: INGESTION:

LOW TOXICITY.

POTENTIAL HEALTH EFFECTS: INHALATION:

IF SPRAYED OR MISTED MAY CAUSE CHEMICAL PNEUMONITIS. EXPOSURE MAY CAUSE IRRITATION TO EYES, NOSE, AND THROAT.

 **SECTION 4 - FIRST AID MEASURES****FIRST AID: EYES:**

IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION AT ONCE.

FIRST AID: SKIN:

FOR SKIN CONTACT, FLUSH WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSE.

FIRST AID: INGESTION:

IF MATERIAL IS INGESTED, IMMEDIATELY CONTACT A PHYSICIAN OR POISON CONTROL CENTER. DO NOT INDUCE VOMITING. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD TO REDUCE RISK OF ASPIRATION.

FIRST AID: INHALATION:

MOVE PERSON TO NON-CONTAMINATED AIR. IF THE AFFECTED PERSON IS NOT BREATHING, APPLY ARTIFICIAL RESPIRATION. SEEK MEDICAL ATTENTION.

FIRST AID: NOTES TO PHYSICIAN:

PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY.

 **SECTION 5 - FIRE FIGHTING MEASURES**

FLASH POINT: 176 C

METHOD USED: COC

UPPER FLAMMABLE LIMIT (UFL): N/D

LOWER FLAMMABLE LIMIT (LFL): N/D

AUTO IGNITION: 343 C

FLAMMABILITY CLASSIFICATION: N/D

RATE OF BURNING: N/D

GENERAL FIRE HAZARDS:

THIS PRODUCT IS COMBUSTIBLE AT HIGH TEMPERATURES. SHUT OFF THE SOURCE OF FUEL, IF POSSIBLE. DO NOT CUT, WELD, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION.

HAZARDOUS COMBUSTION PRODUCTS:

IRRITATING AND TOXIC GASES OR FUMES MAY BE RELEASED DURING A FIRE. CARBON MONOXIDE, CARBON DIOXIDE AND OTHER HYDROCARBON FRAGMENTS.

EXTINGUISHING MEDIA:

DRY CHEMICAL, FOAM, CARBON DIOXIDE.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS:

FIREFIGHTERS SHOULD WEAR FULL-FACE, SELF CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING. FIREFIGHTERS SHOULD AVOID INHALING ANY COMBUSTION PRODUCTS. DO NOT DIRECT A SOLID STREAM OF WATER OR FOAM INTO HOT, BURNING POOLS; THIS MAY RESULT IN FROTHING AND INCREASE FIRE INTENSITY.

NFPA RATINGS:

HEALTH: 0
FIRE: 2
REACTIVITY: 0
OTHER:

HAZARD SCALE:

0 = MINIMAL
1 = SLIGHT
2 = MODERATE
3 = SERIOUS
4 = SEVERE

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CONTAINMENT PROCEDURES:

STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. ELIMINATE ALL SOURCES OF IGNITION OR FLAMMABLES THAT MAY COME INTO CONTACT WITH A SPILL OF THIS MATERIAL. ABSORB THE SPILLED MATERIAL WITH AN INERT ABSORBENT (NONFLAMMABLE) MATERIAL. DO NOT ALLOW THE SPILLED PRODUCT TO ENTER PUBLIC DRAINAGE SYSTEM OR OPEN WATER COURSES.

CLEAN-UP PROCEDURES:

VENTILATE THE CONTAMINATED AREA. SWEEP UP OR GATHER MATERIAL AND PLACE IN APPROPRIATE CONTAINER FOR DISPOSAL. WASH SPILL AREA THOROUGHLY. WEAR APPROPRIATE PROTECTIVE EQUIPMENT DURING CLEANUP. FOLLOW ALL LOCAL, STATE, FEDERAL AND PROVINCIAL REGULATIONS FOR DISPOSAL.

EVACUATION PROCEDURES:

EVACUATE THE AREA PROMPTLY AND KEEP UPWIND OF THE SPILLED MATERIAL. ISOLATE THE SPILL AREA TO PREVENT PEOPLE FROM ENTERING.

SPECIAL PROCEDURES:

HAVE EMERGENCY EQUIPMENT READILY AVAILABLE.

SECTION 7 - HANDLING AND STORAGE

HANDLING PROCEDURES:

WHEN USING THIS MATERIAL, DO NOT EAT, DRINK OR SMOKE. AVOID PROLONGED OR REPEATED SKIN CONTACT WITH THIS MATERIAL. WASH THOROUGHLY AFTER HANDLING.

STORAGE PROCEDURES:

STORE IN A COOL, DRY, WELL-VENTILATED AREA. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. DO NOT STORE THIS MATERIAL IN OPEN OR UNLABELED CONTAINERS.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

A: GENERAL PRODUCT INFORMATION:

EYE WASH FOUNTAIN AND EMERGENCY SHOWERS ARE RECOMMENDED.

B: COMPONENT EXPOSURE LIMITS:

THIS MATERIAL HAS NOT BEEN ANALYZED.

ENGINEERING CONTROLS:

VENTILATION SHOULD EFFECTIVELY REMOVE AND PREVENT BUILDUP OF ANY VAPOR OR MIST GENERATED FROM THE HANDLING OF THIS PRODUCT.

PERSONAL PROTECTIVE EQUIPMENT:

PERSONAL PROTECTIVE EQUIPMENT: EYES/FACE:

WEAR CHEMICAL GOGGLES; FACE SHIELD (IF SPLASHING IS POSSIBLE).

PERSONAL PROTECTIVE EQUIPMENT: SKIN:

WEAR IMPERVIOUS GLOVES FOR PROLONGED CONTACT, NORMAL WORK CLOTHING (LONG SLEEVED SHIRTS AND LONG PANTS) IS RECOMMENDED. DO NOT WEAR RINGS, WATCHES, OR SIMILAR APPAREL THAT COULD ENTRAP THE MATERIAL AND CAUSE A SKIN REACTION.

PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY:

IF MIST IS GENERATED (HEATING, SPRAYING) AND ENGINEERING CONTROLS ARE NOT SUFFICIENT, WEAR APPROVED ORGANIC VAPOR RESPIRATOR SUITABLE FOR OIL MIST.

PERSONAL PROTECTIVE EQUIPMENT: GENERAL:

RESPIRATORS SHOULD BE SELECTED BY AND USED UNDER THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN OSHA'S RESPIRATOR STANDARD (29 CFR 1910.134) AND ANSI'S STANDARD FOR RESPIRATORY PROTECTION (Z88.2-1992). A WRITTEN RESPIRATORY PROTECTION PROGRAM, INCLUDING PROVISIONS FOR MEDICAL CERTIFICATION, TRAINING, FIT TESTING, EXPOSURE ASSESSMENTS, MAINTENANCE, INSPECTION, CLEANING, AND CONVENIENT, SANITARY STORAGE MUST BE IMPLEMENTED.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	RED OILY LIQUID
ODOR:	SLIGHT
PHYSICAL STATE:	LIQUID
pH:	N/D
VAPOR PRESSURE:	< 0.0001 (MM HG @ 20 DEG. C)
VAPOR DENSITY:	10 +
BOILING POINT:	N/D
MELTING POINT:	N/A
SOLUBILITY (H ₂ O):	NIL
SPECIFIC GRAVITY:	0.86

EVAPORATION RATE: 1000 X SLOWER

PHYSICAL PROPERTIES; ADDITIONAL INFORMATION:
NO ADDITIONAL INFORMATION AVAILABLE.

SECTION 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION

CHEMICAL STABILITY:
STABLE UNDER NORMAL CONDITIONS.

CHEMICAL STABILITY; CONDITIONS TO AVOID:
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME.

INCOMPATIBILITY:
THIS PRODUCT MAY REACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION:
HAZARDOUS COMBUSTION PRODUCTS MAY INCLUDE CARBON MONOXIDE, CARBON DIOXIDE AND
HYDROCARBON FRAGMENTS.

HAZARDOUS POLYMERIZATION:
WILL NOT OCCUR.

SECTION 11 - TOXICOLOGICAL INFORMATION

GENERAL TOXICITY:

A: GENERAL PRODUCT INFORMATION:
NO ADDITIONAL INFORMATION AVAILABLE.

B: COMPONENT ANALYSIS - LD50/LC50:
THIS MATERIAL HAS NOT BEEN ANALYZED.

CARCINOGENICITY:

A: GENERAL PRODUCT INFORMATION:
NOT LISTED BY ACGIH, IARC, NIOSH, NTP OR OSHA.

B: COMPONENT CARCINOGENICITY:
THIS MATERIAL HAS NOT BEEN ANALYZED.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY:
NO INFORMATION AVAILABLE.

ENVIRONMENTAL FATE:
NO INFORMATION AVAILABLE FOR THE PRODUCT. DO NOT ALLOW THIS MATERIAL TO DRAIN
INTO SEWERS/WATER SUPPLIES.

SECTION 13 - DISPOSAL CONSIDERATIONS

US EPA WASTE NUMBER & DESCRIPTIONS:

A: GENERAL PRODUCT INFORMATION:

MATERIAL, IF DISCARDED, IS NOT EXPECTED TO BE A CHARACTERISTIC HAZARDOUS WASTE UNDER RCRA. YOU MUST TEST YOUR WASTE USING METHODS DESCRIBED IN 40 CFR PART 261 TO DETERMINE IF IT MEETS APPLICABLE DEFINITIONS OF HAZARDOUS WASTES.

B: COMPONENT WASTE NUMBERS:

THIS MATERIAL HAS NOT BEEN ANALYZED.

DISPOSAL INSTRUCTIONS:

RECYCLING OF THIS PRODUCT IS ENCOURAGED. DISPOSE OF WASTE MATERIAL ACCORDING TO LOCAL, STATE, FEDERAL, AND PROVINCIAL ENVIRONMENTAL REGULATIONS.

 **SECTION 14 - TRANSPORTATION INFORMATION**

US DOT INFORMATION:

SHIPPING NAME: PETROLEUM LUBRICANT
HAZARD CLASS: NOT REGULATED
REQUIRED LABEL(S): NOT REGULATED

INTERNATIONAL TRANSPORTATION REGULATIONS:

NOTE:

THE DATA IN THIS SECTION (SECTION 14) IS MEANT AS A GUIDE TO THE OVERALL CLASSIFICATION OF THE PRODUCT. HOWEVER, TRANSPORTATION CLASSIFICATIONS MAY BE SUBJECT TO CHANGE WITH CHANGES IN PACKAGE SIZE. CONSULT SHIPPER REQUIREMENTS UNDER I.M.O., I.C.A.O. (I.A.T.A.) AND 49 CFR TO ASSURE REGULATORY COMPLIANCE.

 **SECTION 15 - REGULATORY INFORMATION**

US FEDERAL REGULATIONS:

A: GENERAL PRODUCT INFORMATION:

THIS PRODUCT IS LISTED ON THE U.S. EPA TSCA INVENTORY.

B: COMPONENT ANALYSIS:

THIS MATERIAL HAS NOT BEEN ANALYZED.

STATE REGULATIONS:

A: GENERAL PRODUCT INFORMATION:

OTHER STATE REGULATIONS MAY APPLY. CHECK INDIVIDUAL STATE REQUIREMENTS.

B: COMPONENT ANALYSIS - STATE:

THIS MATERIAL HAS NOT BEEN ANALYZED.

OTHER REGULATIONS:

A: GENERAL PRODUCT INFORMATION

SARA 311 CATEGORIES:

IMMEDIATE (ACUTE) HEALTH EFFECTS	- Y
DELAYED (CHRONIC) HEALTH EFFECTS	- N
FIRE HAZARD	- N
SUDDEN RELEASE OF PRESSURE HAZARD	- N
REACTIVITY HAZARD	- N

B: COMPONENT ANALYSIS - WEMIS IDL:
THIS MATERIAL HAS NOT BEEN ANALYZED.

SECTION 16 - OTHER INFORMATION

OTHER INFORMATION:

THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE GIVEN. HOWEVER, NO WARRANTY, EXPRESSED OR IMPLIED, IS GIVEN. IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY WITH FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS.

KEY/LEGEND:

EPA = ENVIRONMENTAL PROTECTION AGENCY
TSCA = TOXIC SUBSTANCE CONTROL ACT
ACGIH = AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
IARC = INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
NIOSH = NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
NTP = NATIONAL TOXICOLOGY PROGRAM
OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
NUTSR = NEW JERSEY TRADE SECRET REGISTRY.
HMIS = HAZARDOUS MATERIAL INFORMATION SYSTEM.
NFFA = NATIONAL FIRE PROTECTION ASSOCIATION.
OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
NTP = NATIONAL TOXICOLOGY PROGRAM.
NIOSH = NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH.
ACGIH = AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.

CONTACT: TERESA SUMMERS

CONTACT PHONE: (812) 285-8277

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