

PETRO-CANADA INC -- DEXRON III/MERCON AUTOMATIC TRANSMISSION FLUID --
9150-00-657-4959

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===== Product Identification =====

Product ID:DEXRON III/MERCON AUTOMATIC TRANSMISSION FLUID

MSDS Date:04/23/1999

FSC:9150

NIIN:00-657-4959

Status Code:A

MSDS Number: CLQQX

=== Responsible Party ===

Company Name:PETRO-CANADA INC

Address:150 6TH AVENUE

Box:2844

City:CALGARY

State:AB

Country:CA

Info Phone Num:403

-296-3000

Emergency Phone Num:403-296-3000

Preparer's Name:PRODUCT SAFETY-TAR

CAGE:38766

=== Contractor Identification ===

Company Name:PETRO-CANADA INC

Address:150 6TH AVENUE

Box:2844

City:CALGARY

State:AB

Country:CA

Phone:403-296-3000

CAGE:38766

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===== Composition/Information on Ingredients =====

Ingred Name:MIXTURE OF HYDROTREATED PARAFINIC OILS AND ADDITIVES.

Fraction by Wt: 100% V/V

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===== Hazards Identification =====

LD50 LC50 Mixture:A

CUTE LD50 >5000MG/KG, LC50>5200 MG/M3

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:SKIN: BASED ON TOXICITY OF SIMILAR PRODUCT, BASE OILS ARE NOT SKIN IRRITANTS. HOWEVER, PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION CHARACTERIZED BY DERMATITIS OR OIL ACNE FOR SENSITIVE INDIVIDUALS. INHALATION: DUE TO LOW VOLATILITY, INHALATION IS NOT LIKELY. HOWEVER, PROLONGED OR REPEAT

ED INHALATION OF EXCESSIVE AMOUNT OF MISTS OR FUMES MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT, OIL DEPOSITS IN THE LUNG MAY LEAD TO FIBROSIS AND REDUCED PULMONARY FUNCTION. INGESTION: INGESTION IS UNLIKELY, HOWEVER IT MAY BE HARMFUL IF SWALLOWED. (SEE OTHER INFORMATION).

Explanation of Carcinogenicity:NO STUDIES WERE FOUND.

Effects of Overexposure:SKIN: BASED ON TOXICITY OF SIMILAR PRODUCT, BASE OILS ARE NOT SKIN IRRITANTS. HOWEVER, PROLONGED OR REPEATED CONTACT MAY CAUSE

SKIN IRRITATION CHARACTERIZED BY DERMATITIS OR OIL ACNE FOR SENSITIVE INDIVIDUALS. INHALATION: DUE TO LOW VOLATILITY, INHALATION IS NOT LIKELY. HOWEVER, PROLONGED OR REPEATED INHALATION OF EXCESSIVE AMOUNT OF MISTS OR FUMES MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT, OIL DEPOSITS IN THE LUNG MAY LEAD TO FIBROSIS AND REDUCED PULMONARY FUNCTION. INGESTION: INGESTION IS UNLIKELY, HOWEVER IT MAY BE HARMFUL IF SWALLOWED. (SEE OTHER INFORMATION).

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===== First Aid Measures =====

First Aid:EYE: CHECK FOR AND REMOVE ANY CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN. DO NOT USE AN EYE OINTMENT. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN: REMOVE CONTAMINATED CLOTHING-LAUNDER BEFORE REUSE. WASH GENTLY CONTAMINATED SKIN WITH RUNNING WATER AND NON-ABRASIVE SOAP. GET MEDICAL ATTENTION IF REDNESS OR IRRITATION OCCURS. INHALATION: EVACUATE THE VICTIM TO A SAFE AREA AS SOON AS POSSIBLE. IF THE VICTIM IS NOT BREATHING, PERFORM MOUTH-TO-MOUTH RESUSCITATION. ADMINISTER OXYGEN IF AVAILABLE. (SEE SUPPLEMENTAL DATA).

===== Fire Fighting Measures =====

Flash Point Method:OC

Flash Point:>177.C, 350.6F

Autoignition Temp:>195.C, 383.F

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:SMALL FIRE: USE DRY CHEMICALS, FOAM, OR CO2. LARGE FIRE: USE WATER SPRAY, FOG OR FOAM. SMALL OUTDOOR FIRE

;, PORTABLE
FIRE EXTINGUISHER.

Fire Fighting Procedures:FOR ALL INDOOR FIRES AND ANY SIGNIFICANT
OUTDOOR FIRE, SCBA IS REQUIRED. RESPIRATORY AND EYE PROTECTION AARE
REQUIRED FOR FIRE FIGHTING PERSONNEL.IF TANK RAIL CAR OR TRUCK IS
INVOLVED IN A FIR, ISOLAT E FOR 800 METERS IN ALL DIRECTIONS. DO
NOT EXTINGUISH A LEADING GAS FUMES UNLESS LEAK CAN BE STOPPED
Unusual Fire/Explosion Hazard:DO NOT CUT, WELD, HEAT, OR DRILL EMPTY
CONTAINER.

===== Accidental Releas
e Measures =====

Spill Release Procedures:ELIMINATE ALL IGNITION SOURCES. AVOID CONTACT,
STOP LEAK IF WITHOUT RISK. CONTAIN SPILL. ABSORB WITH INERT
ABSORENTS SUCH AS DRY CLAY, OR DIATOMACEOUS EARTH.PLACE USED
ABSORBENT INCLOSED METAL CONTAIN ERS FOR LATER DISPOSAL OR BURN
ABORBENT IN A SUITABLE COMBUSTION CHAMBER. DO NOT FLUSH TO SEWERS,
STREAMS OR OTHER BODIES OF WATER.

===== Handling and Storage =====

Handling and Storage

Precautions:KEEP AWAY FROM SOURCES OF IGNITION.
AVOID CONTACT WITH SKIN AND EYES. PRACTICE GOOD PERSONAL HYGIENE.
WASH HANDS AFTER HANDLING AND BEFORE EATING. LAUNDRER WORK CLOTHES
FREQUENTLY. DISCARD SATURATED LE ATER GOODS. STORE IN TIGTLY
CLOSED CONTAINERS IN COOL, DRY, ISOLATED AND WELL-VENTILATED AREA.
Other Precautions:ENSURE THAT DISPSAL OR REPROCESSING IN IN COMPLIANCE
WITH GOVERNMENT REQUIREMENTS AND LOCAL DISPOSAL REGULATIONS.

===== Exposure Controls/Pers
onal Protection =====

Respiratory Protection:RESPIRATOR NORMALLY NOT NECESSARY. IF MIST
GENERATED BY HEATING, SPRAYING, ETC WEAR AN ORGANIC VAPOUR
RESPIRATOR WITH A MIST FILTER. ALL RESPIRATORS MUST BE NIOSH
CERTIFIED.

Ventilation:FOR NORMAL APPLICATION, SPECIAL VENTILATION IS NOT
NECESSRY. IF USER'S OPERATIONS GENERATE VAPOURS OR MIST, USE
VENTILATION TO KEEP EXPOSURE TO AIRBORNE

Protective Gloves:PVC CASUAL CONTACT. PROLONGED CONTACT: NITRILE OR
NEOPRENE ARE R

ECOMMENDED.

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:SAFETY BOOTS OF SHOES. LONG SLEEVED CLOTHING TO MINIMIZE SKIN CONTACT.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING.

Supplemental Safety and Health

ALLOW THE VICTIM TO REST IN A WET VENTILATED AREA. SEEK MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING BECAUSE OF DANGER OR ASPIRATING LIQUID INTO LUNGS. GET IMMEDIATE MEDICAL ATTENTION. NOTE T O PHYSICIAN: ACTIVATED CHARCOAL MIX TURE MAY BE ADMINISTERED.

===== Physical/Chemical Properties =====

HCC:V5

Boiling Pt:=316.C, 600.8F

Vapor Pres:NEGLIGIBLE

Vapor Density:>1 (AIR=1)

Viscosity:29.36 CST @ 40C

Solubility in Water:INSOLUBLE

Appearance and Odor:DARK RED VISCOUS LIQUID, MILD PETROLEUM OIL LIKE ODOR

Percent Volatiles by Volume:NON-VOLATILE

Corrosion Rate:3H @ 149C

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CAN REACT

WITH STRONG ORGANIC OXIDIZING AGENTS.

Stability Condition to Avoid:THIS PRODUCT IS STABLE UNDER NORMAL HANDLING AND STORAGE CONDITIONS.

Hazardous Decomposition Products:COX, SMOKE AND IRRITATING VAPOURS AS PORDUCT OF INCOMPLETE COMBUSTION.

Conditions to Avoid Polymerization:WILL NOT OCCUR UNDER NORMAL WORKING CONDITIOSN.

===== Toxicological Information =====

Toxicological Information:BASED ON SIMILAR PRODUCTS, BASE OIL ARE NONE TO LOW TOXICITY TOWAR

DS AQUATIC ORGANISMS. LC50 (RAINBOW TROUT)

>400,000 PPM IN 96 HOURS, 0% MORTALITY AT 400,000 PPM IN 96 HOURS,
LC50 (MYSIDOPSIS BAHAI) >500,000 PPM IN 96 HOURS, PASSED THE EPS
1/RM/24 MICROTOX TEST USING LUMINESCENT BACTERIA, 57-88 % OF BASE
OIL ARE BIODEGRADABLE IN 28 DAYS

===== Ecological Information =====

Ecological:THE PRODUCT HAS THE POTENTIAL FOR DEGRADATION BY HYDROXYL
RADICALS IN THE TROPOSPHERE UNDER THE INFLUENCE OF SUNLIGHT, AND
BY
BACTERIA IN SOIL OR WATER.

===== Disposal Considerations =====

Waste Disposal Methods:SPENT/USED/WASTE OIL MAY MEET THE REQUIREMENTS
OF A HAZARDOUS WASTE. CONSULT YOUR LOCAL OR REGINAL AUTHORTIES.
PREFERRED WASTE MANAGEMENT PRIORITIES ARE (1) RECYCLE OR REPROCESS
(2) INCINERATION WITH ENERGY RECOVERY (3) DISPOSAL AT LICENSED
WASTE DISPOSAL FACILITY. (SEE OTHER PRECAUTIONS).

===== MSDS Transport Information =====

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Transport Information:TDG CLASSIFICATION: NOT CONTROLLED UNDER TDG
(CANADA)

===== Regulatory Information =====

SARA Title III Information:NOT LISTED ON EPCRA OR SARA TITLE III,
SECTION 302/304/311/312 (40 CFR 355/370)FOR EXTREMELY HAZARDOUS
SUBSTANCES. NOT LISTED ON EPCRA OR SARA TITLE III SECTION 313 (40
CFR 372) FOR TOXIC CHEMICALS. N OT LISTED ON CERCLA HAZARDOUS
SUBSTANCES (RQ CHEMICALS)(40 CFR 302 4) NOT LISTED ON RCRA (40 CFR

261 33) FOR HAZARDOUS WASTE.

Federal Regulatory Information:CEPA; THIS PRODUCT IS ACCEPTABLE FOR USE
UNDER THE PROVISION OF WHMIS-CPR. ALL COMPONENTS OF THE FORMULATION
ARE LISTED ON DSL. THIS PRODUCT IS NOT LISTED ON NPRI OR CONTAINS
REPORTABLE QUANTITY (RQ) SUBSTANCES. USEPA; ALL COMPONENTS OF THIS
FORMULATION ARE LISTED ON TSCA INVENTORY. THIS PRODUCT IS NOT KNOWN
TO CONTAIN ANY OF THE CARCINOGENS REQUIRED TO BE LISTED UNDER OSHA
HAZARD COMMUNICATION ST ANDARDD, 29

===== Other Information =====

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