

PENNZOIL COMPANY

-- MULTI-GRADE MOTOR OIL - ALL GRADES

=====  
MSDS Safety Information  
=====

FSC: 9150  
MSDS Date: 04/23/1998  
MSDS Num: CHVFL  
LIIN: 00N089470  
Product ID: MULTI-GRADE MOTOR OIL - ALL GRADES  
MFN: 01  
Responsible Party  
Cage: 83589  
Name: PENNZOIL COMPANY  
Box: 2967  
City: HOUSTON TX 77252-2967  
Info Phone Number: 800-546-6040  
Emergency Phone Number: 800-546-6040  
Published: Y

=====  
Contractor Summary  
=====

Cage: 83589  
Name: PENNZOIL COMPANY  
Address: UNKNOWN  
Box: 808  
City: OIL CITY PA 16301  
Phone: 713-236-6070/713-546-8512

=====  
Ingredients  
=====

Name: BASE LUBRICATING OILS  
% Wt: 75-85  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

-----  
RTECS #: 1008820DI  
Name: DETERGENT/INHIBITOR SYSTEM  
% Wt: 5-15  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

-----  
RTECS #: 1005992AF  
Name: VISCOSITY INDEX IMPROVER  
% Wt: 5-15  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

-----  
RTECS #: 1003135PD  
Name: POUR POINT DEPRESSANT  
% Wt: <1  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

-----  
Name: ANTIFOAM ADDITIVE  
% Wt: <1  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

-----  
Name: SUP DAT: PROD HAS LAXATIVE PROPERTIES & MAY RSLT IN ABDOM CRAMPS  
& DIARR. ON RARE OCCASIONS, PRLNG & RPTD EXPOS  
-----

Name: ING 6: TO OIL MIST POSES RISK OF PULM DISEASE SUCH AS CHRONIC LUNG  
INFLAMM. THIS CNDTN IS USUALLY ASYMPTOMATIC  
-----

Name: ING 7: AS A RSLT OF RPTD SML ASPIRS. SHORTNESS OF BREATH & COUGH ARE  
MOST COMMON SYMPS. PROD BELONGS TO IARC  
-----

Name: ING 8: CLASSIFICATION GROUP 3, "NOT CLASSIFIED AS TO ITS CARCIN TO  
HUMANS". PROD IS NOT CARCIN ACCORDING TO OSHA  
-----

Name: ING 9: HAZ COMMUNICATION STD. IARC HAS CONCLUDED THERE IS SUFFICIENT  
EVIDENCE THAT USED GASOLINE-ENGINE MOTOR  
-----

Name: ING 10: OILS PRODUCE SKIN TUMORS IN EXPERIMENTAL ANIMALS.  
-----

Name: FIRST AID PROC: (GIVE OXYGEN/ARTIFICIAL RESPIRATION) (FP N). INGESTION:  
DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION.  
-----

Name: SPILL PROC: SAND, CLAY, ETC. LGE SPILLS MAY BE PICKED UP USING VACUUM  
PUMPS, SHOVELS, BUCKETS OR OTHER MEANS &  
-----

Name: ING 13: PLACED IN DRUMS OR OTHER SUITABLE CONTAINERS.  
-----

Name: WASTE DISP METH: DEPARTMENT OF TRANSPORTATION (DOT) REGS MAY APPLY FOR  
TRANSPORTING THIS MATL WHEN SPILLED.  
-----

Name: ING 15: WASTE MATERIAL MAY BE LANDFILLED OR INCINERATED AT APPROVED  
FACILITY. MATERIALS SHOULD BE RECYCLED IF POSSIBLE.  
-----

Name: VENT: TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE OR  
FLAMMABLE LIMITS.  
-----

Name: OTHER PROT EQUIP: FOR PRLNG/RPTD EXPOS, USE IMPERVIOUS CLTHG (BOOTS,  
GLOVES, APRONS, ETC) OVER PARTS OF BODY  
-----

Name: ING 18: SUBJECT TO EXPOS. IF HNDLG HOT MATL, USE INSULATED PROT CLTHG  
(BOOTS, GLOVES, APRONS, ETC).  
-----

Name: HYGIENE PRACT: W/SOAP & WATER BEFORE EATING, DRINKING/SMKNG. LAUNDER  
SOILED CLOTHES. PROPERLY DISPOSE OF CONTAM  
-----

Name: ING 20: LEATHER ARTICLES INCLUDING SHOES, WHICH CANNOT BE  
DECONTAMINATED.  
=====

Health Hazards Data  
=====

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: ACUTE: EYES: PRACTICALLY NON-IRRITATING UPON DIRECT

CONT. BASED ON TESTING OF SIMILAR PRODS &/OR COMPONENTS. SKIN: MIN IRRITATING UPON DIRECT CONT. BASED ON TESTING OF SIMILAR PRODS &/OR COMPONENTS. PRLNG/RPTD CONT MAY RSLT IN CONT DERM INC L DRYNESS, CHAPPING, & REDDENING. THIS CNDTN MAY MAKE SKIN (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: NOT RELEVANT.

Signs And Symptions Of Overexposure: HLTH HAZ: MORE SUSCEPTIBLE TO OTHER IRRITANTS, SENSITIZERS, & DISEASE. PRLNG/RPTD CONT MAY RSLT IN OIL ACNE INCL BLACKHEADS W/POSS SECONDARY INFECTION. INHAL: PROD HAS LOW VAP PRESS & IS NOT EXPECTED TO PRESENT INHAL HAZ AT AMBIENT CNDTNS. CAUTION SHOULD BE TAKEN TO PVNT AEROSOLIZATION/MISTING OF THIS PROD. (SUP DAT)

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid: EYES: IMMED FLUSH W/LGE AMTS OF WATER & CONTINUE FLUSHING UNTIL IRRIT SUBSIDES (FOR AT LEAST 15 MIN). IF MATL IS HOT, TREAT FOR THERMAL BURNS & TAKE VICTIM TO HOSPITAL IMMED. SKIN: REMOVE CONTAM CLTHG. WASH CONTAM AREA THORO W/SOAP & WATER. IF MATL IS HOT, SUBMERGE INJURED AREA IN COLD WATER. IF VICTIM IS SEV BURNED, REMOVE TO HOSPITAL IMMED. INHAL: REMOVE TO FRESH AIR. SUPPORT BRTHG

=====  
Handling and Disposal  
=====

Spill Release Procedures: CONSULT HLTH EFT INFO, PERS HLTH PROT INFO, FIRE PROT INFO, & REACTIVITY DATA. NOTIFY APPROP AUTH OF SPILL. CONTAIN SPILL IMMED. DO NOT ALLOW SPILL TO ENTER SEWERS/WATERCOURSES. REMOVE ALL SOURCES OF IGNIT. ABSORB W/APPROP INERT MATL SUCH A S

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: ALL DISPS MUST COMPLY W/FED, STATE, & LOC REGS. MATL, IF SPILLED/DISCARDED, MAY BE REGULATED WASTE. REFER TO STATE & LOC REGS. CAUTION! IF REGULATED SOLVS ARE USED TO CLEAN UP SPILLED MATL, RESULTING WASTE MIXTURE MAY BE REGULATED.

Handling And Storage Precautions: AVOID SKIN CONT. DO NOT INGEST. DO NOT TRANSFER TO UNMARKED CONTRS. STORE IN CLSD CONTRS AWAY FROM HEAT, SPKS, OPEN FLAME/OXIDIZING MATLS.

Other Precautions: THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS UNDER DOTREGS. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30 & OSHA 1910.106--FLAM & COMBUST LIQUIDS. THIS PROD IS NOT A CONTROLLED SUBSTANCE UNDER CANADIAN W REGULATIONS.

=====  
Fire and Explosion Hazard Information  
=====

Flash Point Method: COC

Flash Point Text: 432F, 222C

Extinguishing Media: USE DRY CHEMICAL, FOAM, OR CARBON DIOXIDE.

Fire Fighting Procedures: WEAR NIOSH APPRVD SCBA & FULL PROT EQUIP (FP N). WATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTRS EXPOSED TO HEAT/FLAME. CAUTION SHOULD BE (SUP DAT)

Unusual Fire/Explosion Hazard: DENSE SMOKE MAY BE GENERATED WHILE BURNING. CARBON MONOXIDE, CARBON DIOXIDE, AND OTHER OXIDES MAY BE GENERATED AS PRODUCTS OF COMBUSTION.

=====  
Control Measures  
=====

Respiratory Protection: RESP PROT IS NOT REQUIRED UNDER CNDTNS OF NORM USE. IF VAP/MIST IS GENERATED WHEN MATL IS HEATED/HANDLED, USE ORG VAP RESP W/DUST & MIST FILTER. ALL RESPS MUST BE NIOSH CERTIFIED. DO NOT USE COMPRESSED OXYGEN IN HYDROCARBON ATMOSPHERES.

Ventilation: IF VAP/MIST IS GENERATED WHEN MATL IS HEATED/HANDLED, ADEQ VENT I/A/W GOOD ENGINEERING PRACT MUST BE PROVIDED

Protective Gloves: IMPERVIOUS GLOVES FOR PRLNG/RPTD EXPOS.  
Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES (FP N).  
Other Protective Equipment: ANSI APPRVD EMER EYEWASH & DELUGE SHOWER (FP N).  
NO SKIN PROT IS REQUIRED FOR SINGLE, SHORT DURATION EXPOS.  
Work Hygienic Practices: AVOID CONSUMPTION OF FOOD & BEVERAGE IN WORK AREAS  
WHERE HYDROCARBONS ARE PRESENT. ALWAYS WASH HANDS & FACE  
Supplemental Safety and Health: FIRE FIGHT PROC: EXERCISED WHEN USING  
WATER/FOAM AS FROTHING MAY OCCUR, ESP IF SPRAYED INTO CONTRS OF HOT,  
BURNING LIQ. EFTS OF OVEREXP: EXPOS BELOW 5 MG/M3 APPEAR TO BE W/OUT  
SIGNIFICANT HLTH RISK. SHORT-TERM EXPOS LIM FOR THIS PROD AS OIL MIST IS  
10 MG/M3. INGEST: THIS PROD IS RELATIVELY NON-TOX BY INGEST.

=====

Physical/Chemical Properties

=====

B.P. Text: >800F,>427C  
M.P/F.P Text: -30F,-34C  
Spec Gravity: 0.8700  
Solubility in Water: NIL  
Appearance and Odor: CLEAR AND BRIGHT WITH NORMAL ODOR.

=====

Reactivity Data

=====

Stability Indicator: YES  
Stability Condition To Avoid: NONE.  
Materials To Avoid: MAY REACT WITH STRONG OXIDIZING AGENTS.  
Hazardous Decomposition Products: NONE.  
Hazardous Polymerization Indicator: NO  
Conditions To Avoid Polymerization: NOT RELEVANT.

=====

Toxicological Information

=====

Ecological Information

=====

MSDS Transport Information

=====

Regulatory Information

=====

Other Information

=====

HAZCOM Label

=====

Product ID: MULTI-GRADE MOTOR OIL - ALL GRADES  
Cage: 83589  
Company Name: PENNZOIL COMPANY  
Street: UNKNOWN  
PO Box: 808  
City: OIL CITY PA  
Zipcode: 16301  
Health Emergency Phone: 800-546-6040  
Label Required IND: Y  
Date Of Label Review: 08/26/1998  
Status Code: C

Label Date: 08/26/1998

Origination

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight

Contact Hazard: Slight

Fire Hazard: Slight

Reactivity Hazard: None

Hazard And Precautions: ACUTE: EYES: PRACTICALLY NON-IRRITATING UPON DIRECT CONTACT. SKIN: MINIMALLY IRRITATING UPON DIRECT CONTACT. PROLONGED OR REPEATED CONTACT MAY RESULT IN CONTACT DERMATITIS INCLUDING DRYNESS, CHAPPING, AND REDDENING. INHALATION: NOT EXPECTED TO PRESENT A HAZARD AT AMBIENT CONDITIONS. INGESTION: MAY CAUSE ABDOMINAL CRAMPS AND DIARRHEA. CHRONIC: USED GASOLINE MOTOR OILS PRODUCE SKIN TUMORS IN LABORATORY ANIMALS. POSSIBLE SKIN SENSITIZATION.

=====  
Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.