1. PRODUCT IDENTIFICATION

MANUFACTURER'S NAME: PENNZOIL PRODUCTS COMPANY

CAS NUMBER: MIXTURE

MSDS CODE: 012352

ADDRESS: P.O. BOX 2967

HOUSTON, TX 77252-2967

EMERGENCY TELEPHONE NO.: (800) 546-6040

NFPA HAZARD IDENTIFICATION

DEGREE OF HAZARD HAZARD RATINGS

HEALTH: 1 1-LEAST

FIRE: 2 2-MODERATE

REACTIVITY: 0 3-HIGH

4-EXTREME

TRADE NAME: PENNZOIL MARINE FUEL SYSTEM CLEANER & STABILIZER

SYNONYMS: STOCK #1110

BY: HEALTH SERVICES

(800) 546-6227

EFFECTIVE DATE: DECEMBER 23, 1998

SUPERSEDES DATE: SEPTEMBER 04, 1998

2. INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT NAME</th>
<th>HAZARDOUS IN</th>
<th>PERCENTAGE</th>
<th>MIN</th>
<th>MAX</th>
<th>COMPONENT EXPOSURE LIMIT</th>
<th>UNIT</th>
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<tr>
<td>ANTIOXIDANT</td>
<td>YES</td>
<td>&lt; 10</td>
<td>OSHA PEL</td>
<td>NO LIMIT</td>
<td></td>
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<tr>
<td>TRADE SECRET</td>
<td>NO</td>
<td>&lt; 5</td>
<td>OSHA PEL</td>
<td>NO LIMIT</td>
<td></td>
<td></td>
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<tr>
<td>2-ETHYL-1-HEXANOL</td>
<td>104-76-7</td>
<td>YES 80 TO 90</td>
<td>OSHA PEL</td>
<td>NO LIMIT</td>
<td></td>
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<tr>
<td>HYDROTREATED LIGHT DISTILLATE</td>
<td>YES 80 TO 90</td>
<td>OSHA PEL</td>
<td>NO LIMIT</td>
<td></td>
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</table>

3. HEALTH INFORMATION AND PROTECTION

EYE CONTACT: AVOID EYE CONTACT. THIS PRODUCT MAY BE SLIGHTLY IRITATING TO THE EYES UPON DIRECT CONTACT. BASED ON TESTING OF SIMILAR PRODUCTS AND/OR COMPONENTS. EXPOSURE TO HIGH CONCENTRATIONS OF VAPORS MAY BE IRITATING TO THE EYES.

SKIN CONTACT: AVOID SKIN CONTACT. THIS PRODUCT MAY CAUSE SLIGHT SKIN IRRITATION UPON DIRECT CONTACT. BASED ON TESTING OF SIMILAR PRODUCTS AND/OR COMPONENTS. PROLONGED OR REPEATED CONTACT MAY RESULT IN CONTACT DERMATITIS WHICH IS CHARACTERIZED BY DRYNESS, CHAPPING, AND REDDENING. THIS CONDITION MAY MAKE
THE SKIN MORE SUSCEPTIBLE TO OTHER IRRITANTS, SENSITIZERS, AND DISEASE.
PRE-EXISTING SKIN CONDITIONS MAY MAKE THE SKIN MORE SUSCEPTIBLE AND
FACILITATE UPTAKE BY THIS ROUTE. MAY BE ABSORBED THROUGH SKIN. SEE HEALTH
DATA SECTION BELOW.

INHALATION:
AVOID PROLONGED INHALATION OF VAPORS. THIS PRODUCT MAY BE CONSIDERED A LOW
HEALTH HAZARD UNLESS INHALED IN VERY HIGH CONCENTRATIONS. ACUTE AND
CHRONIC EXPOSURE TO VAPORS MAY BE IRRITATING TO THE RESPIRATORY TRACT.
SEVERE INTOXICATION MAY LEAD TO DROWSINESS, DULLNESS, NUMBNESS, AND
HEADACHE FOLLOWED BY DIZZINESS, WEAKNESS, AND NAUSEA. EXPOSURE TO EVEN
HIGHER CONCENTRATIONS MAY LEAD TO LOSS OF CONSCIOUSNESS AND CONVULSIONS
FOLLOWED BY DEATH. AT EXTREMELY HIGH CONCENTRATIONS WHERE OXYGEN
DISPLACEMENT IS A FACTOR, ASPHYXIATION MAY OCCUR. SEE HEALTH DATA SECTION
BELOW. SEE SECTION IX, MISCELLANEOUS, FOR ADDITIONAL INFORMATION.

INGESTION:
DO NOT INGEST. INGESTION OF SMALL QUANTITIES IS USUALLY NONFATAL UNLESS
ASPIRATION OCCURS. ASPIRATION MAY LEAD TO CHEMICAL PNEUMONITIS WHICH IS
CHARACTERIZED BY PULMONARY EDEMA AND HEMORRHAGE AND MAY BE FATAL. SIGNS OF
LUNG INVOLVEMENT INCLUDE INCREASED RESPIRATORY RATE, INCREASED HEART RATE,
AND A BLULISH DISCOLORATION OF THE SKIN. COUGHING, CHOKING, AND GAGGING ARE
OFTEN NOTED AT THE TIME OF ASPIRATION. GASTROINTESTINAL DISCOMFORT MAY
DEVELOP, FOLLOWED BY VOMITING WITH A FURTHER RISK OF ASPIRATION. SEVERE
ORAL INTOXICATION WILL LEAD TO INTENSE BURNING OF THE THROAT AND MAY
RESULT IN DROWSINESS, DULLNESS, NUMBNESS, AND HEADACHE FOLLOWED BY
DIZZINESS, WEAKNESS, AND NAUSEA. LOSS OF CONSCIOUSNESS AND CONVULSIONS
FOLLOWED BY DEATH MAY RESULT. SEE HEALTH DATA SECTION BELOW.

HEALTH DATA:
THIS PRODUCT CONTAINS PETROLEUM NAPHTHAS AND/OR SOLVENTS WHICH ARE A
COMPLEX BLEND OF LIGHT PETROLEUM DISTILLATES. SOME OF THE COMPONENTS OF
THeses BLENDS ARE CONSIDERED UNIQUELY TOXIC AT HIGH CONCENTRATIONS, SUCH AS
BENZENE (BONE MARROW DISORDERS INCLUDING ANEMIA AND LEUKEMIA) AND N-HEXANE
(PERIPHERAL NEUROPATHY). AT THE LOW CONCENTRATIONS AT WHICH THEY ARE
PRESENT IN THIS BLEND HOWEVER, AND AT THE LOW EXPOSURE LEVELS AT WHICH
THEY ARE ENCOUNTERED AS VAPORS, THESE COMPONENTS DO NOT PRESENT A
SIGNIFICANT RISK. LIGHT HYDROCARBONS SUCH AS STODDARD SOLVENT, VM & P
NAPHTHA AND C10-C11 ISOPARAFFIN PRODUCED KIDNEY TUMORS IN MALE RATS BUT
NOT IN FEMALE RATS OR MICE. THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
HAS CONCLUDED THAT THESE KIDNEY TUMORS ARE NOT RELEVANT TO HUMANS.
VARIOUS NAPHTHAS TESTED WERE NOT CARCINOGENIC IN MOUSE SKIN PAINTING
BIO-ASSAYS. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER HAS CONCLUDED
THAT PETROLEUM SOLVENTS ARE GROUP 3 SUBSTANCES, "NOT CLASSIFIABLE AS TO
THEIR CARCINOGENICITY TO HUMANS." THIS PRODUCT IS NOT CARCINOGENIC
ACCORDING TO THE OSHA HAZARD COMMUNICATION STANDARD.

4. EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER AND CONTINUE FLUSHING
UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED AREA THOROUGHLY WITH SOAP
AND WATER. USE A HAND OR SKIN LOTION TO PREVENT DRYNESS. IF REDNESS OR
IRRITATION OCCURS, SEEK MEDICAL ATTENTION.
INHALATION: IF VICTIM EXHIBITS SIGNS OF VAPOR INTOXICATION REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED OR IS IRREGULAR, ADMINISTER ARTIFICIAL RESPIRATION AND SUPPLY OXYGEN IF IT IS AVAILABLE. IF VICTIM IS UNCONSCIOUS, REMOVE TO FRESH AIR AND SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING DUE TO ASPIRATION HAZARD. IF VOMITING OCCURS LOWER HEAD BELOW KNEES TO AVOID ASPIRATION. SEEK IMMEDIATE MEDICAL ATTENTION.

5. PERSONAL HEALTH PROTECTION INFORMATION

EYE PROTECTION: EYE PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF MATERIAL IS HANDLED SUCH THAT IT COULD BE SPLASHED INTO EYES, WEAR PLASTIC FACE SHIELD OR SPLASH-PROOF SAFETY GOGGLES.

SKIN PROTECTION: NO SKIN PROTECTION IS REQUIRED FOR SINGLE, SHORT DURATION EXPOSURES. FOR PROLONED OR REPEATED EXPOSURES, USE IMPERVIOUS SYNTHETIC RUBBER CLOTHING (BOOTS, GLOVES, APRONS, ETC.) OVER PARTS OF THE BODY SUBJECT TO EXPOSURE. LAUNDER SOILED CLOTHES. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES INCLUDING SHOES, WHICH CANNOT BE DECONTAMINATED.

RESPIRATORY PROTECTION: IF CONCENTRATIONS ARE LESS THAN 10 TIMES THE LIMITS IN SECTION II OR IX, USE AN ORGANIC VAPOR RESPIRATOR. IF CONCENTRATIONS ARE GREATER THAN 10 TIMES THE LIMITS IN SECTION II OR IX, USE A SUPPLIED AIR RESPIRATOR OR A SELF-CONTAINED BREATHING APPARATUS. ALL RESPIRATORS MUST BE NIOSH CERTIFIED. DO NOT USE COMPRESSED OXYGEN IN HYDROCARBON ATMOSPHERES.

VENTILATION: ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE OR FLAMMABLE LIMITS. SEE ALSO FIRE PROTECTION INFORMATION IN SECTION VI.

OTHER: CONSUMPTION OF FOOD AND BEVERAGE SHOULD BE AVOIDED IN WORK AREAS WHERE HYDROCARBONS ARE PRESENT. ALWAYS WASH HANDS AND FACE WITH SOAP AND WATER BEFORE EATING, DRINKING, OR SMOKING.

6. FIRE PROTECTION INFORMATION

FLASH POINT: 143 F TEST METHOD: ASTM D93 - PMCC

AUTOIGNITION TEMPERATURE: NO DATA TEST METHOD: NO DATA

FLAMMABLE LIMITS IN AIR % BY VOLUME LOWER: NO DATA UPPER: NO DATA

EXTINGUISHING MEDIA: USE WATER SPRAY (FOG), DRY CHEMICAL, FOAM, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES: WATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTAINERS EXPOSED TO HEAT OR FLAME.
7. REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): STABLE

CONDITIONS TO AVOID: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE

INCOMPATIBILITY MATERIALS TO AVOID: MAY REACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

8. ENVIRONMENTAL PRECAUTIONS

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
CONSULT HEALTH EFFECT INFORMATION IN SECTION III, PERSONAL HEALTH PROTECTION INFORMATION IN SECTION V, FIRE PROTECTION INFORMATION IN SECTION VI, AND REACTIVITY DATA IN SECTION VII. NOTIFY APPROPRIATE AUTHORITIES OF SPILL. CONTAIN SPILL IMMEDIATELY. DO NOT ALLOW SPILL TO ENTER SEWERS OR WATER COURSES. REMOVE ALL SOURCES OF IGNITION. PROVIDE ADEQUATE VENTILATION DURING CLEAN-UP. ABSORB WITH SOLVENT ABSORBENT MATERIAL. LARGE SPILLS MAY BE PICKED UP USING VACUUM PUMPS, SHOVELS, BUCKETS, OR OTHER MEANS AND PLACED IN DRUMS OR OTHER SUITABLE CONTAINERS.

WASTE DISPOSAL METHOD:
ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A RCRA WASTE. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS. CAUTION: IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED MATERIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED. DEPARTMENT OF TRANSPORTATION (DOT) REGULATIONS MAY APPLY FOR TRANSPORTING THIS MATERIAL WHEN SPILLED. WASTE MATERIAL MAY BE LANDFILLED OR INCINERATED AT AN APPROVED FACILITY. MATERIALS SHOULD BE RECYCLED IF POSSIBLE.

9. MISCELLANEOUS

HANDLING AND STORAGE REQUIREMENTS: DO NOT TRANSFER TO UNMARKED CONTAINERS. STORE IN A COOL, WELL VENTILATED AREA IN CLOSED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME OR OXIDIZING MATERIALS. THIS PRODUCT IS CLASSIFIED AS ORM-D (CONSUMER COMMODITY) UNDER DOT REGULATIONS. SEE 49 CFR 171 THROUGH 178 FOR SHIPPING REQUIREMENTS. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30 AND OSHA 1910.106--FLAMMABLE AND COMBUSTIBLE LIQUIDS.

ADDITIONAL INFORMATION: THE OSHA PEL FOR PETROLEUM DISTILLATES (NAPHTHAS) IS 2000 MG/M3. NIOSH RECOMMENDED LIMITS FOR PETROLEUM DISTILLATES ARE 350 MG/M3 (10-HOUR TWA) AND A 1800 MG/M3 STEL.
10. PHYSICAL PROPERTIES

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<tr>
<td>Melting Point</td>
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<tr>
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<tr>
<td>Solubility</td>
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