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MSDS

Common Name: VALVOLINE OUTBOARD 2-CYCLE TC-W3 MOTOR OIL**Manufacturer:** ASHLAND CHEMICAL**MSDS Revision Date:** 8/25/2008**Grainger Item Number(s):** 1UCB9, 4NPN5, 4NPN6, 4NPN7, 4NPN8**Manufacturer Model Number(s):**

MSDS Table of Contents

Click the desired link below to jump directly to that section in the MSDS.

- [1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION](#)
- [2. HAZARDS IDENTIFICATION](#)
- [3. COMPOSITION/INFORMATION ON INGREDIENTS](#)
- [4. FIRST AID MEASURES](#)
- [5. FIRE-FIGHTING MEASURES](#)
- [6. ACCIDENTAL RELEASE MEASURES](#)
- [7. HANDLING AND STORAGE](#)
- [8. EXPOSURE CONTROLS/PERSONAL PROTECTION](#)
- [9. PHYSICAL AND CHEMICAL PROPERTIES](#)
- [10. STABILITY AND REACTIVITY](#)
- [11. TOXICOLOGICAL INFORMATION](#)
- [12. ECOLOGICAL INFORMATION](#)
- [13. DISPOSAL CONSIDERATIONS](#)
- [14. TRANSPORT INFORMATION](#)
- [15. REGULATORY INFORMATION](#)
- [16. OTHER INFORMATION](#)

ASHLAND (R*)

SAFETY DATA SHEET

VALVOLINE (R*) OUTBOARD 2-CYCLE TC-W3 MOTOR OIL

VV465

REVISION DATE: 08/25/2008

PRINT DATE: 5/12/2009

MSDS NUMBER: R0172415

VERSION: 2.1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION



AND OF THE COMPANY/UNDERTAKING

ASHLAND
P.O. BOX 2219
COLUMBUS, OH 43216

REGULATORY INFORMATION NUMBER: 1-800-325-3751

TELEPHONE: 614-790-3333

EMERGENCY TELEPHONE:
1-800-ASHLAND
(1-800-274-5263)

PRODUCT NAME: VALVOLINE (R*) OUTBOARD 2-CYCLE TC-W3 MOTOR OIL

PRODUCT CODE: VV465

PRODUCT USE DESCRIPTION: NO DATA

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

APPEARANCE: LIQUID

CAUTION!
COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

POTENTIAL HEALTH EFFECTS:

ROUTES OF EXPOSURE:
INHALATION, SKIN ABSORPTION, SKIN CONTACT, EYE CONTACT, INGESTION

EYE CONTACT:
MAY CAUSE MILD EYE IRRITATION. SYMPTOMS INCLUDE STINGING, TEARING, AND REDNESS.

SKIN CONTACT:
MAY CAUSE MILD SKIN IRRITATION. SYMPTOMS MAY INCLUDE REDNESS AND BURNING OF SKIN. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN. SYMPTOMS MAY INCLUDE REDNESS, BURNING, AND DRYING AND CRACKING OF SKIN, SKIN BURNS, AND OTHER SKIN DAMAGE.

INGESTION:
SWALLOWING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY BE HARMFUL. THIS MATERIAL CAN GET INTO THE LUNGS DURING SWALLOWING OR VOMITING. THIS RESULTS IN LUNG INFLAMMATION AND OTHER LUNG INJURY.

INHALATION:
BREATHING OF VAPOR OR MIST IS POSSIBLE. BREATHING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS ARE NOT EXPECTED AT AIR CONCENTRATIONS BELOW THE RECOMMENDED EXPOSURE LIMITS, IF APPLICABLE (SEE SECTION 8.).

AGGRAVATED MEDICAL CONDITION:
PREEXISTING DISORDERS OF THE FOLLOWING ORGANS (OR ORGAN SYSTEMS) MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL:
LUNG (FOR EXAMPLE, ASTHMA-LIKE CONDITIONS), SKIN

SYMPTOMS:
SIGNS AND SYMPTOMS OF EXPOSURE TO THIS MATERIAL THROUGH BREATHING, SWALLOWING, AND/OR PASSAGE OF THE MATERIAL THROUGH THE SKIN MAY INCLUDE: STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS), CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS) AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS

TARGET ORGANS:
EXPOSURE TO THIS MATERIAL (OR A COMPONENT) HAS BEEN FOUND TO CAUSE KIDNEY DAMAGE IN MALE RATS. THE MECHANISM BY WHICH THIS TOXICITY OCCURS IS SPECIFIC TO THE MALE RAT AND THE KIDNEY EFFECTS ARE NOT EXPECTED TO OCCUR

IN HUMANS.

CARCINOGENICITY:

THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), THE NATIONAL TOXICOLOGY PROGRAM (NTP), OR THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

REPRODUCTIVE HAZARD:

THERE ARE NO DATA AVAILABLE FOR ASSESSING RISK TO THE FETUS FROM MATERNAL EXPOSURE TO THIS MATERIAL.

3. COMPOSITION/INFORMATION ON INGREDIENTS



COMPONENTS	CAS-NO.	CONCENTRATION
DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC	64741-88-4	>/=30-<40%
DISTILLATES, SWEETENED MIDDLE	64741-86-2	>/=15-<20%
ALIPHATIC PETROLEUM DISTILLATES	8052-41-3	>/=5-<10%

4. FIRST AID MEASURES



EYES:

IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER WHILE HOLDING EYELIDS APART. IF SYMPTOMS PERSIST OR THERE IS ANY VISUAL DIFFICULTY, SEEK MEDICAL ATTENTION.

SKIN:

REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDRY CLOTHING BEFORE REUSE.

INGESTION:

SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH THE HEAD DOWN. CONTACT A PHYSICIAN, MEDICAL FACILITY, OR POISON CONTROL CENTER FOR ADVICE ABOUT WHETHER TO INDUCE VOMITING. IF POSSIBLE, DO NOT LEAVE INDIVIDUAL UNATTENDED.

INHALATION:

IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. KEEP PERSON WARM AND QUIET; SEEK IMMEDIATE MEDICAL ATTENTION.

NOTES TO PHYSICIAN:

HAZARDS:

ACUTE ASPIRATION OF LARGE AMOUNTS OF OIL-LADEN MATERIAL MAY PRODUCE A SERIOUS ASPIRATION PNEUMONIA. PATIENTS WHO ASPIRATE THESE OILS SHOULD BE FOLLOWED FOR THE DEVELOPMENT OF LONG-TERM SEQUELAE. REPEATED ASPIRATION OF SMALL QUANTITIES OF MINERAL OIL CAN PRODUCE CHRONIC INFLAMMATION OF THE LUNGS (I.E. LIPOID PNEUMONIA) THAT MAY PROGRESS TO PULMONARY FIBROSIS. SYMPTOMS ARE OFTEN SUBTLE AND RADIOLOGICAL CHANGES APPEAR WORSE THAN CLINICAL ABNORMALITIES. OCCASIONALLY, PERSISTENT COUGH, IRRITATION OF THE UPPER RESPIRATORY TRACT, SHORTNESS OF BREATH WITH EXERTION, FEVER, AND BLOODY SPUTUM OCCUR. INHALATION EXPOSURE TO OIL MISTS BELOW CURRENT WORKPLACE EXPOSURE LIMITS IS UNLIKELY TO CAUSE PULMONARY ABNORMALITIES. THIS MATERIAL IS AN ASPIRATION HAZARD. POTENTIAL DANGER FROM ASPIRATION MUST BE WEIGHED AGAINST POSSIBLE ORAL TOXICITY (SEE SECTION 2 - SWALLOWING) WHEN DECIDING WHETHER TO INDUCE VOMITING.

TREATMENT: NO INFORMATION AVAILABLE.

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE (CO2)

HAZARDOUS COMBUSTION PRODUCTS:
CARBON DIOXIDE AND CARBON MONOXIDE, SULFUR OXIDES, HYDROCARBONS, VARIOUS HYDROCARBONS

PRECAUTIONS FOR FIRE-FIGHTING:
IF PRODUCT IS HEATED ABOVE ITS FLASH POINT IT WILL PRODUCE VAPORS SUFFICIENT TO SUPPORT COMBUSTION. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND AND BE IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS NEAR THE POINT OF RELEASE. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. WEAR FULL FIREFIGHTING TURN-OUT GEAR (FULL BUNKER GEAR), AND RESPIRATORY PROTECTION (SCBA). USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS AND STRUCTURES UNTIL FIRE IS OUT IF IT CAN BE DONE WITH MINIMAL RISK. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

FLAMMABILITY CLASS FOR FLAMMABLE LIQUIDS: COMBUSTIBLE LIQUID CLASS IIIA

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:
FOR PERSONAL PROTECTION SEE SECTION 8. PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED.

ENVIRONMENTAL PRECAUTIONS:
PREVENT SPREADING OVER A WIDE AREA (E.G. BY CONTAINMENT OR OIL BARRIERS). DO NOT LET PRODUCT ENTER DRAINS. DO NOT FLUSH INTO SURFACE WATER OR SANITARY SEWER SYSTEM. LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED.

METHODS FOR CLEANING UP:
CONTAIN SPILLAGE, AND THEN COLLECT WITH NON-COMBUSTIBLE ABSORBENT MATERIAL, (E.G. SAND, EARTH, DIATOMACEOUS EARTH, VERMICULITE) AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL / NATIONAL REGULATIONS (SEE SECTION 13).

OTHER INFORMATION:
COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. SUPPRESS (KNOCK DOWN) GASES/VAPORS/MISTS WITH A WATER SPRAY JET.

7. HANDLING AND STORAGE



HANDLING:
CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED. STATIC IGNITION HAZARD CAN RESULT FROM HANDLING AND USE. ELECTRICALLY BOND AND GROUND ALL CONTAINERS, PERSONNEL AND EQUIPMENT BEFORE TRANSFER OR USE OF MATERIAL. SPECIAL PRECAUTIONS MAY BE NECESSARY TO DISSIPATE STATIC ELECTRICITY FOR NON-CONDUCTIVE CONTAINERS. USE PROPER BONDING AND GROUNDING DURING PRODUCT TRANSFER AS DESCRIBED IN NATIONAL FIRE PROTECTION ASSOCIATION DOCUMENT NFPA 77.

STORAGE: STORE IN A COOL, DRY, VENTILATED AREA.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



EXPOSURE GUIDELINES:

DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC 64741-88-4:

OSHA Z1:
PERMISSIBLE EXPOSURE LIMIT: 500 PPM

OSHA Z1:
PERMISSIBLE EXPOSURE LIMIT: 2,000 MG/M3

OSHA Z1A:
TIME WEIGHTED AVERAGE: 400 PPM

OSHA Z1A:
TIME WEIGHTED AVERAGE: 1,600 MG/M3

US CA OEL:
TIME WEIGHTED AVERAGE (TWA): 400 PPM
PERMISSIBLE EXPOSURE LIMIT (PEL):

US CA OEL:
TIME WEIGHTED AVERAGE (TWA): 1,600 MG/M3
PERMISSIBLE EXPOSURE LIMIT (PEL):

ACGIH:
TIME WEIGHTED AVERAGE: 5 MG/M3 MIST.

ACGIH:
SHORT TERM EXPOSURE LIMIT: 10 MG/M3 MIST.

ACGIH NIC:
TIME WEIGHTED AVERAGE: 0.2 MG/M3 INHALABLE FRACTION.

ALIPHATIC PETROLEUM DISTILLATES 8052-41-3:

ACGIH:
TIME WEIGHTED AVERAGE: 100 PPM

NIOSH:
RECOMMENDED EXPOSURE LIMIT (REL): 350 MG/M3

NIOSH:
CEILING LIMIT VALUE AND TIME PERIOD (IF SPECIFIED): 1,800 MG/M3

OSHA Z1:
PERMISSIBLE EXPOSURE LIMIT: 500 PPM

OSHA Z1:
PERMISSIBLE EXPOSURE LIMIT: 2,900 MG/M3

OSHA Z1A:
TIME WEIGHTED AVERAGE: 100 PPM

OSHA Z1A:
TIME WEIGHTED AVERAGE: 525 MG/M3

US CA OEL:
TIME WEIGHTED AVERAGE (TWA): 100 PPM
PERMISSIBLE EXPOSURE LIMIT (PEL):

US CA OEL:
TIME WEIGHTED AVERAGE (TWA): 525 MG/M3
PERMISSIBLE EXPOSURE LIMIT (PEL):

GENERAL ADVICE:
THESE RECOMMENDATIONS PROVIDE GENERAL GUIDANCE FOR HANDLING THIS PRODUCT.
PERSONAL PROTECTIVE EQUIPMENT SHOULD BE SELECTED FOR INDIVIDUAL
APPLICATIONS AND SHOULD CONSIDER FACTORS WHICH AFFECT EXPOSURE POTENTIAL,
SUCH AS HANDLING PRACTICES, CHEMICAL CONCENTRATIONS AND VENTILATION. IT
IS ULTIMATELY THE RESPONSIBILITY OF THE EMPLOYER TO FOLLOW REGULATORY

GUIDELINES ESTABLISHED BY LOCAL AUTHORITIES.

EXPOSURE CONTROLS:

PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW EXPOSURE GUIDELINES (IF APPLICABLE) OR BELOW LEVELS THAT CAUSE KNOWN, SUSPECTED OR APPARENT ADVERSE EFFECTS.

EYE PROTECTION:

NOT REQUIRED UNDER NORMAL CONDITIONS OF USE. WEAR SPLASH-PROOF SAFETY GOGGLES IF MATERIAL COULD BE MISTED OR SPLASHED INTO EYES.

SKIN AND BODY PROTECTION:

WEAR RESISTANT GLOVES SUCH AS:

NEOPRENE
NITRILE RUBBER

WEAR NORMAL WORK CLOTHING INCLUDING LONG PANTS, LONG-SLEEVED SHIRTS AND FOOT COVERING TO PREVENT DIRECT CONTACT OF THE PRODUCT WITH THE SKIN. LAUNDRER CLOTHING BEFORE REUSE. IF SKIN IRRITATION DEVELOPS, CONTACT YOUR FACILITY HEALTH AND SAFETY PROFESSIONAL OR YOUR LOCAL SAFETY EQUIPMENT SUPPLIER TO DETERMINE THE PROPER PERSONAL PROTECTIVE EQUIPMENT FOR YOUR USE.

RESPIRATORY PROTECTION:

A NIOSH-APPROVED AIR-PURIFYING RESPIRATOR WITH AN APPROPRIATE CARTRIDGE AND/OR FILTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS (IF APPLICABLE) OR IF OVEREXPOSURE HAS OTHERWISE BEEN DETERMINED. PROTECTION PROVIDED BY AIR-PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE, AIR-SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN OR ANY OTHER CIRCUMSTANCES WHERE AN AIR-PURIFYING RESPIRATOR MAY NOT PROVIDE ADEQUATE PROTECTION.

9. PHYSICAL AND CHEMICAL PROPERTIES

△ top

PHYSICAL STATE: LIQUID

FORM: NO DATA

COLOR: NO DATA

ODOR: HYDROCARBON-LIKE

BOILING POINT/BOILING RANGE: 180.00 DEG. C / 356 DEG. F @ 760.00 MMHg

MELTING POINT/RANGE: -38 DEG. F / -39 DEG. C

pH: NO DATA

FLASH POINT: (>) 151 DEG. F / 66 DEG. C, CLEVELAND OPEN CUP

EVAPORATION RATE: 0.1 (BUTYL ACETATE=1)

EXPLOSION LIMITS:

1.0 %(V)
6.0 %(V)

VAPOR PRESSURE: 0.20 MMHg @ 68 DEG. F / 20 DEG. C

VAPOR DENSITY: NO DATA

DENSITY:

(AVERAGE) 0.8550 G/CM3 @ 68 DEG. F / 20 DEG. C
NO DATA

SOLUBILITY: INSOLUBLE IN WATER

PARTITION COEFFICIENT n-OCTANOL/WATER: NO DATA

LOG POW: NO DATA AVAILABLE

AUTOIGNITION TEMPERATURE: NO DATA

10. STABILITY AND REACTIVITY



STABILITY: STABLE.

CONDITIONS TO AVOID: HEAT, FLAMES AND SPARKS.

INCOMPATIBLE PRODUCTS: STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON DIOXIDE AND CARBON MONOXIDE, SULPHUR OXIDES, HYDROCARBONS, VARIOUS HYDROCARBONS

HAZARDOUS REACTIONS: PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

THERMAL DECOMPOSITION: NO DATA

11. TOXICOLOGICAL INFORMATION



ACUTE ORAL TOXICITY:

DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC:
LD 50 RAT: >5,000 MG/KG

DISTILLATES, SWEETENED MIDDLE:
LD 50 RAT: >5,000 MG/KG

ALIPHATIC PETROLEUM DISTILLATES:
LD 50 RAT: >5 G/KG

ACUTE INHALATION TOXICITY:

DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC:
LD 50 RAT: >3.9 MG/L, 4 H

DISTILLATES, SWEETENED MIDDLE: NO DATA AVAILABLE

ALIPHATIC PETROLEUM DISTILLATES: NO DATA AVAILABLE

ACUTE DERMAL TOXICITY:

DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC:
LD 50 RABBIT: >2,000 MG/KG

DISTILLATES, SWEETENED MIDDLE: NO DATA AVAILABLE

ALIPHATIC PETROLEUM DISTILLATES:
LD 50 RABBIT: >3 G/KG

12. ECOLOGICAL INFORMATION



AQUATIC TOXICITY:

ACUTE AND PROLONGED TOXICITY TO FISH: NO DATA

ACUTE TOXICITY TO AQUATIC INVERTEBRATES: NO DATA

ENVIRONMENTAL FATE AND PATHWAYS: NO DATA

13. DISPOSAL CONSIDERATIONS

 top

WASTE DISPOSAL METHODS:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. FOR ASSISTANCE WITH YOUR WASTE MANAGEMENT NEEDS - INCLUDING DISPOSAL, RECYCLING AND WASTE STREAM REDUCTION, CONTACT ASHLAND DISTRIBUTION'S ENVIRONMENTAL SERVICES GROUP AT 800-637-7922.

14. TRANSPORT INFORMATION

 top

DANGEROUS GOODS DESCRIPTIONS (IF INDICATED ABOVE) MAY NOT REFLECT PACKAGE SIZE, QUANTITY, END-USE OR REGION-SPECIFIC EXCEPTIONS THAT CAN BE APPLIED. CONSULT SHIPPING DOCUMENTS FOR DESCRIPTIONS THAT ARE SPECIFIC TO THE SHIPMENT.

15. REGULATORY INFORMATION

 top

CALIFORNIA PROP. 65:

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH, OR ANY OTHER REPRODUCTIVE DEFECTS.

SARA HAZARD CLASSIFICATION:

FIRE HAZARD
ACUTE HEALTH HAZARD

SARA 313 COMPONENT(S):

REPORTABLE QUANTITY - COMPONENTS:

DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC	64741-88-4	NONE
DISTILLATES, SWEETENED MIDDLE	64741-86-2	NONE
ALIPHATIC PETROLEUM DISTILLATES	8052-41-3	NONE

	HMIS NFPA	
HEALTH	1	1
FLAMMABILITY	2	2
REACTIVITY	0	0
OTHER		

16. OTHER INFORMATION

 top

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES. THIS MSDS HAS BEEN PREPARED BY ASHLAND'S ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT (1-800-325-3751).