

ASHLAND OIL INC -- UNLEADED 87 -- 9130-00-148-7103

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

Product ID:UNLEADED 87

MSDS Date:12/30/1997

FSC:9130

NIIN:00-148-7103

Status Code:A

MSDS Number: CJGBG

=== Responsible Party ===

Company Name:ASHLAND OIL INC

Address:1409 WINCHESTER AVE

Box:391

City:ASHLAND

State:KY

ZIP:41114

Country:US

Info Phone Num:606-329-3333

Emergency Phone Num:800-274-5263/606-329-3333

Resp. Party Other MSDS Num.:37154

CAGE:81355

=== Contractor Identif

ication ===

Company Name:ASHLAND INC

Address:1409 WINCHESTER AVE

Box:391

City:ASHLAND

State:KY

ZIP:41114

Country:US

Phone:800-622-6846

CAGE:81355

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

Ingred Name:GASOLINE (INCLUDE INGREDIENTS LISTED BELOW)

CAS:86290-81-5

RTECS #:DE3550000

= Wt:100.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:300 PPM

ACGIH TLV:300 PPM

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)

CAS:1330-20-7

RTECS #:ZE2100000

Minumum % Wt:4.

Maxumum % Wt:10.

Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM/150 STEL
ACGIH TLV:100 PPM/150STEL;9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:TOLUENE (SARA III)
CAS:108-88-3
RTECS #:XS5250000
Minumum % Wt:3.
Maxumum % Wt:10.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:200 PPM/150 STEL
ACGIH TLV:50 PPM; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:BENZENE (SARA III)
CAS:71-43-2
RTECS #:CY1400000
Minumum % Wt:0.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1PPM/5
STEL;1910.1028
ACGIH TLV:10 PPM; A2; 9293
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:PENTANE
CAS:109-66-0
RTECS #:RZ9450000
Minumum % Wt:0.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1000 PPM/750 STEL
ACGIH TLV:600 PPM/750STEL;9293

Ingred Name:1,2,4-TRIMETHYLBENZENE (SARA III)
CAS:95-63-6
RTECS #:DC3325000
Minumum % Wt:0.
Maxumum % Wt:4.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:25 PPM
ACGIH TLV:25 PPM; 9293

Ingred Name:HEXANE (N-HEXANE)
CAS:110-54-3
RTECS #:MN9275000

Minumum % Wt:0.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:500 PPM
ACGIH TLV:50 PPM; 9293
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:BUTANE
CAS:106-97-8
RTECS #:EJ4200000
Minumum % Wt:1.
Maxumum % Wt:3.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:800 PPM
ACGIH TLV:800 PPM; 9293

Ingred Name:ETHYL BENZENE (SARA III)
CAS:100-41-4
RTECS #:DA0700000
Minumum % Wt:0.
Maxumum % Wt:3.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM/125 STEL
ACGIH TLV:100 PPM/125STEL 9293
EPA Rpt
Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:N-HEPTANE
CAS:142-82-5
RTECS #:MI7700000
Minumum % Wt:0.
Maxumum % Wt:3.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:500 PPM/500 STEL
ACGIH TLV:400 PPM/500STEL;9293

Ingred Name:METHYL TERT-BUTYL ETHER (SARA III)
CAS:1634-04-4
RTECS #:KN5250000
Minumum % Wt:0.
Maxumum % Wt:17.
Other REC Limits:NONE RECOMMENDED
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ETHYL ALCOHOL
CAS:64-17-5
RTECS #:KQ6300000
Minumum % Wt:0.
Maxumum % Wt:10.
OSHA PEL:1900 MG/

M3;1000 PPM
ACGIH TLV:1880 MG/M3;1000 PPM

Ingred Name:METHYL-2-PENTANE
CAS:107-83-5
Code:F
RTECS #:SA2985000
Minumum % Wt:0.
Maxumum % Wt:5.

Ingred Name:METHYL-3-PENTANE
CAS:96-14-0
Code:F
Minumum % Wt:0.
Maxumum % Wt:5.

Ingred Name:2-METHYLHEXANE
CAS:591-76-4
Minumum % Wt:0.
Maxumum % Wt:3.

Ingred Name:3-METHYLHEXANE
CAS:589-34-4
Minumum % Wt:0.
Maxumum % Wt:3.

Ingred Name:DIMETHYL-2,3-BUTANE
CAS:79-29-8
Code:F
RTECS #:EJ9350000
Minumum % Wt:0.
Maxumum % Wt:2.

===== Hazar
ds Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:EXPOSURE CAUSES EYE IRRITATION; MILD
SKIN IRRITATION. INHALATION MAY CAUSE IRRITATION OF NASAL &
RESPIRATORY PASSAGES &/OR CENTRAL NERVOUS SYSTEM EFFECTS. THE
MATERIAL CAN ENTER THE LUNGS DURING SWALL OWING OR VOMITING & CAUSE
LUNG INFLAMMATION &/OR DAMAGE. CHRONIC: INTENTIONAL EXPOSURE TO

HIGH CONCENTRATIONS OF GASOLINE (AS IN ABUSE) HAVE BEEN REPORTED TO RESULT IN IRREVERSIBLE BRAIN DAMAGE, CONVULSIONS, DELIRIUM, ASTHMA-LIKE BRONCHOSPASMS &/OR SUDDEN DEATH DUE TO CARDIAC SENSITIZATION.

Explanation of Carcinogenicity:IARC HAS IDENTIFIED GASOLINE & GASOLINE EXHAUST AS A POSSIBLE HUMAN CARCINOGEN.

Effects of Overexposure:EYES-STINGING, TEARING, REDNESS, SWELLING. SKIN-MILD IRRITATION, DRY SKIN, REDNESS, BURNING, CRACKING, SKIN BURNS. INHALED-IRRITATION OF NASAL & RESPIRATORY PASSAGES, DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS, DEATH. INGESTED-LUNG INFLAMMATION &/OR DAMAGE.

Medical Cond Aggravated by Exposure:PREEXISTING EYE,SKIN,RESPIRATORY,LIVER OR KIDNEY DISORDERS MAY BE AGGRAVATED.PERSONS WITH PREEXISTING HEART DISORDERS MAY BE MORE SUSCEPTIBLE TO ARRHYTHMIAS IF EXPOSED TO HIGH CONCENTRATIONS OF GASOLINE.

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

First Aid:E
YES: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES, LIFT LIDS. REMOVE CONTACTS IF WORN. SEE DOCTOR. SKIN: REMOVE CONTAMINATED CLOTHING & SHOES. WASH THOROUGHLY WITH SOAP & WATER. SEE DOCTOR. INHALATION: REMOVE VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPPED. SEE DOCTOR. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. SEE DOCTOR IMMEDIATELY.

===== Fire Fighting Measures =====
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Flash Point Method:TCC
Flash Point:23.3C, 74.F
B.P. Text:74-460F@760.00 MMHG
Vapor Pres:>259.00 MMHG @68F
Vapor Density:3
Spec Gravity:>0.70 @ 68F
Viscosity:0.7-0.77 @ 68F
Appearance and Odor:CLEAR LIQUID WITH HYDROCARBON ODOR.
Percent Volatiles by Volume:100
Corrosion Rate:N.A.

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS SUCH AS PEROXIDES, NITRIC ACID PERCHLORATES & CHLORINE.
Stability Cond

ition to Avoid:ALL SOURCES OF IGNITION & CONTACT WITH
STRONG OXIDIZING AGENTS SUCH AS PEROXIDES, NITRIC ACID PERCHLORATES
& CHLORINE.

Hazardous Decomposition Products:UPON COMBUSTION, CARBON MONOXIDE,
VARIOUS HYDROCARBONS, SMALL AMOUNTS OF SULFUR AND NITROGEN COULD BE
FORMED.

Conditions to Avoid Polymerization:CANNOT OCCUR.

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

Toxicological Information:ORAL LD50(SMALL CHILD):10-15 GRAMS/0.5
OZ.ORAL LD50(ADULT):

20-50 GRAMS/2 OZ.DERMAL LD50:NO VALUES

AVAILABLE. INHALATION LC50(HUMAN, ACUTE):2000 PPM;(HUMAN,
CHRONIC):>500 PPM; EFFECTS-VOMITING, DIARRHE A, INSOMNIA, HEADACHE,
DIZZINESS, ANEMIA, MUSCLE & NEUROLOGICAL SYMPTOMS.PUBLISHED
VALUES:LC RAT:300 G/M3/5 MIN;LC50 MOUSE:300 G/M3/5 MIN;LC50 GUINEA
PIG:300 G/M3/5 MIN. EYE IRRITATION:HUMAN DOSE=140 PPM/8 HR
REACTION=MILD; DOSE=500 PPM/1 HR REACTION=MODERATE.DATA UNIQUE TO
COMPONENTS:1-ETHYL ALCOHOL=CLASSIFIED AS A CARCINOGEN
WHEN CONSUMED
AS ALCOHOLIC BEVERAGE.2-N-BUTANE=INHALATION CAN PRODUCE N ARCOTIC
EFFECT AT HIGH CONCENTRATIONS.

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

Ecological:FRESHWATER TOXICITY: BLUEGILL - LC50 8 PPM/96 HOUR; JUVENILE
AMERICAN SHAD - TLM 90 PPM/24 HOUR. SALTWATER TOXICITY: JUVENILE
AMERICAN SHAD - TLM 91/24 HR; TOTAL KILL: GREATER THAN 114 PPM/24
HOUR; GR ASS SHRIMP - LC50 1.5 PPM/96 HR; MULLET- LC50 4 PPM/96
HOUR. ACCUMULATION: NO POTE
NTIAL FOR ACCUMULATION OR CONCENTRATION
IN THE FOOD CHAIN.

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

Waste Disposal Methods:DISPSOE OF IN ACCORDANCE WITH ALL APPLICABLE
FEDERAL, STATE & LOCAL REGULATIONS. THIS MATERIAL SHOULD BE KEPT
OUT OF WATER SOURCES & SEWERS. THIS MATERIAL MAY MEET THE CRITERIA
OF A HAZARDOUS WASTE AS DEFINED BY USEPA UNDER RCRA (40 CFR 261)
OR OTHER STATE & LOCAL REGULATIONS. ANALYSIS FOR REGULATED
COMPONENTS MAY BE NEC

ESSARY.

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

Transport Information:DOT SHIPPING NAME: GASOLINE; UN/NA NUMBER:
UN1203; HAZARD CLASS: 3; PACKING GROUP: II; EXCEPTIONS: 150.
SPECIAL LABEL: FLAMMABLE. SPECIAL SHIPPING PROVISIONS: B33, B101,
T8. NON-BULK: 202; BULK: 242; AIR RAIL MAX: 5 L; AIR CARGO MAX: 60
L;OMO/ICAO: N.A.

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

SARA Title III Information:SARA CODES: FIRE-YES; PRESSUE-
YES;
REACTIVE-NO; ACUTE-YES; CHRONIC-YES/ SARA 313: METHYL TERT-BUTYL
ETHER, TOLUENE, XYLENE, BENZENE, 1,2,4 TRIMETHYLBENZENE, HEXANE,
ETHYLBENZENE.

Federal Regulatory Information:GASOLINE: NO REGULATORY INFORMATION
AVAILABLE/ CLEAN AIR ACT HAP: METHYL TERT-BUTYL ETHER, TOLUENE,
XYLENE, BENZENE, HEXANE, ETHYLBENZENE/CLEAN AIR ACT ORGANIC
HAZARDOUS AIR POLLUTANT: METHYL TERT-BUT YL ETHER, TOLUENE,
XYELENE, BENZENE, HEXANE, ETHYLBENZENE/ CLEAN AIR ACT SOCM I LIST:
ME

THYL TERT-BUTYL ETHER: TOLUENE, XYLENE, BENZENE, HEXANE,
ETHYLBENZENE/ CLEAN AIR ACT VOLATILE HAZARDOUS AIR POLLU TANT:
METHYL TERT-BUTYL ETHER: TOLUENE, XYLENE, BENZENE, HEXANE,
ETHYLBENZENE/ EPA HAZARDOUS SUBSTAN CE 40 CFR 116.4: TOLUENE,
XYLENE, BENZENE, ETHYLBENZENE. CONTINUED IN "OTHER".

State Regulatory Information:MA RTK SUBSTANCE LIST: METHYL TERT-BUTYL
ETHER: TOLUENE, XYLENE, BENZENE, HEXANE, ETHYLBENZENE,
METHYL-3-PENTANE, NORMAL PENTANE, 2-METHYLHEXANE, 3-METHY
LHEXANE,
DIMETHYL-2,3-BUTANE, HEPTANE/ CA PROP 65: METHYL TERT-BUTYL ETHER:
TOLUENE, XYLENE, BENZENE, HEXANE, ETHYLBENZENE/ PA HAZARDOUS
SUBSTANCE LIST: 1,2,4-TRIMETHYLBENZENE.

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

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