

SHELL OIL COMPANY -- SHELL SU-2000(R) SUPER UNLEADED GASOLINE -- 9130-00-148-7102

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

Product ID:SHELL SU-2000(R) SUPER UNLEADED GASOLINE

MSDS Date:11/10/1992

FSC:9130

NIIN:00-148-7102

MSDS Number: BPVMR

=== Responsible Party ===

Company Name:SHELL OIL COMPANY

Address:1 SHELL PLAZA

Box:2463

City:HOUSTON

State:TX

ZIP:77001

Country:US

Info Phone Num:713-241-4819

Emerg

ency Phone Num:713-473-9461 (24 HOUR EMERGENCY)

Preparer's Name:J.C. WILLETT

CAGE:54527

=== Contractor Identification ===

Company Name:SHELL OIL COMPANY

Box:2463

City:HOUSTON

State:TX

ZIP:77210

Country:US

Phone:800-231-6950

CAGE:54527

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

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

CAS:1330-20-7

RTECS #:ZE2100000

Fraction by Wt: 0-25%

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
Fraction by Wt: 0-25%
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
Fraction by Wt: 0-4%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1PPM/5STEL;1910.1028
ACGIH TLV:10 PPM; A2; 9293
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:HEXANE (N-HEXANE)
CA
S:110-54-3
RTECS #:MN9275000
Fraction by Wt: 0-3%
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:METHYL TERT-BUTYL ETHER (SARA III)
CAS:1634-04-4
RTECS #:KN5250000
Fraction by Wt: 0-15%
Other REC Limits:NONE RECOMMENDED
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:1,2,4-TRIMETHYLBENZENE (SARA III)
CAS:95-63-6
RTECS #:DC3325000
Fraction by Wt: 0-5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:25 PPM
ACGIH TLV:25 PPM; 9293

Ingred Name:CYCLOHEXANE (SARA III)
CAS:110-82-7
RTECS #:GU6300000
Fraction by Wt: 0-1%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:300 PPM
ACGIH TLV:300 PPM, 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:ETHYL BENZENE (SARA III)
CAS:100-41-4
RTECS #:DA0700000
Fraction by Wt: 0-3%
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:NAPHTHALENE (SARA III)
CAS:91-20-3
RTECS #:QJ0525000
Fr
action by Wt: 0-1%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 PPM/15 STEL
ACGIH TLV:10 PPM/15 STEL; 9293
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:ALKANES, CYCLOALKANES, ALKENES AND AROMATIC HYDROCARBONS
Fraction by Wt: BALANCE
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (RAT) ORAL >5,000 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES

OSHA:YES

Health Hazards Acute and Chronic:INHALATION: MAY CAUSE IRRITATION TO THE NOSE, THROAT AND RESPIRATORY TRACT AND ADDITIONALLY, MAY PRODUCE LIVER AND KIDNEY DAMAGE. HIGH VAPOR CONCENTRATIONS MAY PRODUCE CNS DEPRESSION. INGESTION: MAY B E FATAL IF SWALLOWED. INGESTION MAY RESULT IN VOMITING; ASPIRATION OF VOMITUS INTO LUNGS MAY RESULT PNEUMONITIS.

Explanation of Carcinogenicity:BENZENE, A COMPONENT OF THIS PRODUCT, IS CLASSIFIED AS A CARCINOGEN BY NTP, IARC AND OSHA

Effects of Overexposure:EARLY TO MODERATE CNS DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA; IN EXTREME CASES, UNCONCIOUSNESS AND DEATH MAY OCCUR. ASPIRATION PNEUMONITIS MAY BE EVIDENCED BY COUGHIN G, LABORED BREATHING AND CYANOSIS. KIDNEY DAMAGE MAY BE EVIDENCED BY CHANGE IN URINE OUTPUT URINE APPEARANCE.

Medical Cond Aggravated by Exposure:PREEXISTING EYE, SKIN, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED. IMPAIRED LIVER AND KIDNEY FUNC TIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN CONTACT: FLUSH WITH WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION INHALATION: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, RESUSCITATE. GET MEDIC AL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL AID.

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

Flash Point Method:TCC

Flash Point:-40F,-40C

Lower Limits:1.3

Upper Limits:7.6

Extinguishing Media:USE DRY CHEMICAL, CARBON DIOXIDE, FOAM OR WATER FOG. DO NOT USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT ON WATER.

Fire Fighting Procedures:DANGER. EXTREMELY FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL AND ISOLATE. COOL FIRE EXPOSED CON

TAINERS

WITH WATER.

Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR ACCUMULATING IN LOW AREAS AND TRAVELING ALONG THE GROUND AWAY FROM THE HANDLING SITE. DO NOT WELD, HEAT ON OR NEAR CONTAINERS.

===== Accidental Release Measures =====

Spill Release Procedures:DANGER. EXTREMELY FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. ISOLATE THE HAZARD AREA. WEAR APPROPRIATE RESPIRATOR AND P

ROTECTIVE CLOTHING. WATE R FOG MAY BE USEFUL IN SUPPRESSING VAPOR CLOUD.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. DO NOT USE AS A CLEANING SOLVENT OR FOR OTHER NON-MOTOR FUEL USES.

Other Precautions:IF A MAJOR SPILL OCCURS, GET UPWIND AND NOTIFY LOCAL EMERGENCY PERSONNEL. EXPLOSION AND FIRE IS THE MOST IMMEDIATE DANGER.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:UNDER CONDITIONS OF POTENTIAL HIGH EXPOSURE, THE USE OF A NIOSH-APPROVED RESPIRATOR IS RECOMMENDED. USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

Ventilation:USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS.

Protective Gloves:NITRILE RUBBER OR VITON/NEOPRENE

Eye Protection:FACE SH

IELD AND GOGGLES OR CHEMICAL GOGS

Other Protective Equipment:STANDARD WORK CLOTHING. SHOES CONTAMINATED WITH THIS PRODUCT THAT CAN NOT BE DECONTAMINATED SHOULD BE DISCARDED.

Work Hygienic Practices:WEAR IMPERVIOUS GLOVES WHEN "DIP-STICKING STORAGE TANKS". WORK UPWIND OF SMALL SPILLS.

Supplemental Safety and Health

DO NOT USE THIS PRODUCT AS A SOLVENT FOR CLEANING EQUIPMENT OR SKIN. STORE SMALL QUANTITIES ONLY IN SAFETY CANS. ALLOW CONTAMINATED RAGS TO DRY IN WELL-VENTILATED A

REA BEFORE STORAGE. PRODUCT SPREADS

EASILY AND MAY FLASH BACK ALONG VAPOR TRAILS. PRODUCT NAME HAS BEEN
CHANGED, FORMERLY SU 2000 (SUPER UNLEADED GASOLINE).

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

HCC:F2

Vapor Pres:7-14.5

Vapor Density:3.5(AIR=1)

Spec Gravity:0.72-0.76

Solubility in Water:NEGLIGIBLE

Appearance and Odor:BRONZE COLOR, CLEAR AND BRIGHT LIQUID. HYDROCARBON
ODOR.

Percent Volatiles by Volume:100 %

===== Stability and Reactivity

Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:HEAT, SPARKS, OPEN FLAMES. PREVENT VAPOR
ACCUMULATION.

Hazardous Decomposition Products:CARBON MONOXIDE AND OTHER UNIDENTIFIED
ORGANIC COMPOUNDS.

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

Waste Disposal Methods:IF THIS PRODUCT BECOMES A WASTE MATERIAL, IT
WOULD BE AN IGNITABLE HAZARDOUS WASTE NUMBER D001. REFER TO LATEST
EPA OR STA
TE REGULATIONS FOR PROPER DISPOSAL. THIS PRODUCT CONTAINS
BENZENE AT >0.5 MG/L

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