

SHELL OIL COMPANY -- RU 2000 REGULAR UNLEADED GASOLINE -- 9130-00-148-7102

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

Product ID:RU 2000 REGULAR UNLEADED GASOLINE

MSDS Date:04/11/1990

FSC:9130

NIIN:00-148-7102

MSDS Number: BPLZY

=== 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

Emergency 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:TOLUENE (SARA III)

CAS:108-88-3

RTECS #:XS5250000

Fraction by Wt: 0-25%

Other REC Limits:NONE SPECIFIED

OSHA PEL:200 PPM/150 STEL

ACGIH TLV:50 PPM; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)
CAS:1330-20-7
RTECS #:ZE2100000
Fraction by Wt: 0-25%
Other REC Limits:NONE SPECIFIED
OSHA PEL:100 PPM/150 STEL
ACGIH TLV:100 PPM/150STEL;9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:BENZENE (SARA III)
CAS:71-43-2
RTECS #:CY1400000
Fraction by Wt: 0-5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:1PPM/5STEL;1910.1028
ACGIH TLV:10 PPM; A2; 9192
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:HEXANE (N-HEXANE)
CAS:110-54-3
RTECS #:MN9
275000
Fraction by Wt: 0-3%
Other REC Limits:NONE SPECIFIED
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: 0-11%
Other REC Limits:NONE SPECIFIED
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ALKANES, CYCLOALKANES, ALKANES & AROMATIC HYDROCARBONS.
CAS:68475-59-2
Fraction by Wt: BALANCE
Other REC Limits:NONE RECOMMENDED

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
Fraction 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 (ORAL RAT) IS >5 GM/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:EYE-IRRITATING.

SKIN-PROLONGED OR

REPEATED CONTACT CAN CAUSE DEFATTING & DRYING, RESULTING IN SKIN IRRITATION & DERMATITIS. INHALE-IRRITATION TO THE NOSE, THROAT & RESPIRATORY TRACT & MAY PRODUCE LIVE R & KIDNEY DAMAGE. INGEST-MAY BE HARMFUL/FATAL IF SWALLOWED, RESULTING IN VOMITING OR ASPIRATION PNEUMONITIS.

Explanation of Carcinogenicity:BENZENE IS SUSPECTED OF CARCINOGENIC (LUKEMIA) POTENTIAL IN MAN AND IS LISTED BY IARC, NTP AND OSHA.
Effects of Overexposure:GIDDINESS, HEADACHE, DIZZ

INESS AND NAUSEA; IN

EXTREME CASES, UNCONCIOUSNESS AND DEATH MAY OCCUR. ASPIRATION
PNEUMONITIS CAN SHOW AS COUGHING, LABORED BREATHING AND CYANOSIS.
OTHER SIGN ARE CHANGES IN URINE OUTPUT, APPEARANCE OR EDEMA,
LOSS OF APPETITE, JAUNDICE AND PAIN IN THE UPPER ABDOMEN ON THE
RIGHT SIDE.

Medical Cond Aggravated by Exposure: PREEXISTING EYE, SKIN AND
RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS
PRODUCT. IMPAIRED LIVER AND KIDNEY FUNCTIONS FROM PREEXISTING

DISORDERS MAY BE AGGRAVATED BY EXPOSURE.

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

First Aid: EYE-FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
SKIN-FLUSH WITH WATER, REMOVE SOILED CLOTHES/SHOES. WASH WITH SOAP
& WATER. INHALE-REMOVE TO FRESH AIR & PROVIDE OXYGEN IF HARD TO
BREATH. GIVE CPR IF NOT BREATHING. GET MEDICAL ATTENTION.
INGEST-DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY
KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION
OF LIQUID INTO LUNGS.
GET MEDICAL ATTENTION.

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

Flash Point Method: TCC

Flash Point: -40F, -40C

Autoignition Temp: Autoignition Temp Text: UNK

Lower Limits: 1.0

Upper Limits: 7.8

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, DRY CHEMICAL.
DO NOT USE WATER DIRECTLY, PRODUCT WILL FLOAT & REIGNITE ON
SURFACE.

Fire Fighting Procedures: DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL
BUNKER GEAR INCLUDING A NIOSH PO

SITIVE PRESSURE SELF CONTAINED

BREATHING APPARATUS. COOL CONTAINERS WITH WATER.

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

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

Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT, ELIMINATE SOURCES
OF IGNITION, ISOLATE AREA & DENY ENTRY. DIKE TO RETAIN LARGE SPILL.
REMOVE

WITH VACUUM TRUCK OR PUMP TO STORAGE/SALVAGE VESSEL. SOAK UP
RESIDUE WITH INERT MATERIAL & FLUSH AREA WITH WATER TO REMOVE
RESIDUE

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED
AREA AWAY FROM SOURCES OF IGNITION. ALL HANDLING EQUIPMENT MUST BE
GROUNDED TO PREVENT SPARKING.

Other Precautions:DANGER. EXTREMELY FLAMMABLE. AVOID ALL IGNITION
SOURCES & STRONG OXIDIZING AGENTS. HARMFUL OR
FATAL IF SWALLOWED.

DO NOT SIPHON GAS BY MOUTH. FOR USE AS A MOTOR FUEL ONLY. DO NOT
USE AS A CLEANING SOL VENT OR FOR OTHER NON-MOTOR FUEL USE.

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

Respiratory Protection:UNDER CONDITIONS OF POTENTIAL HIGH EXPOSURE, USE
A NIOSH/MSHA APPROVED RESPIRATOR IS RECOMMENDED, PER CURRENT 29 CFR
1910.134 OR 29 CFR 1910.1028 USE EITHER AN ATMOSPHERE-SUPPLYING
RESPIRATOR OR AIR-P URIFYING RESPIRATOR FOR ORGANIC VAPORS.

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

Protective Gloves:NITRILE RUBBER, VITON/NEOPRENE

Eye Protection:WEAR CHEMICAL GOGGLES.

Other Protective Equipment:SAFETY SHOWER AND EYE BATH. WEAR IMPERVIOUS
PROTECTIVE TYPE WORK CLOTHING (NITRILE RUBBER, POLYVINYL ALCOHOL,
NEOPRENE)

Work Hygienic Practices:WASH AFTER HANDLING & BEFORE EATING, DRINKING,
SMOKING OR USING TOILET. LAUNDER CONTAMINATED CLOTHING BEFORE
REUSE.

Supplemental Safe
ty and Health

NOTE TO PHYSICIAN: IF MORE THAN 2.0 ML PER KG HAS BEEN INGESTED &
VOMITING HAS NOT OCCURRED, EMESIS SHOULD BE INDUCED WITH MEDICAL
SUPERVISION. KEEP VICTIM'S HEAD BELOW HIPS TO PREVENT ASPIRATION.
IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSION, ETC OCCUR
BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED.

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

HCC:F2

Boiling Pt:B.P. Text:100F,38C

Vapor Pres:7-14.5 PSI

Vapor Density:3.5

Spec Gravit

y: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:AVOID HEAT, SPARKS, OPEN FLAMES. PREVENT
VAPOR ACCUMULATION.

Hazardous Decomposition Products:CARBON MONOXIDE AND OTHER UNIDENTIFIED
ORGANIC COMPOUNDS CAN BE FORMED UPON
COMBUSTION.

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

Waste Disposal Methods:PRODUCT RECOVERY & RECYCLING IS RECOMMENDED.
DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND
LOCAL REGULATIONS.

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