

SHELL CHEMICAL CO. -- VV-B-231 BENZENE -- 6810-00-281-2764

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

Product ID:VV-B-231 BENZENE

MSDS Date:01/01/1985

FSC:6810

NIIN:00-281-2764

MSDS Number: BDSVY

=== Responsible Party ===

Company Name:SHELL CHEMICAL CO.

Address:HEALTH, SAFETY AND ENVIRONMENT

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:713-241-4819

Emergency Phone Num:713-473-9461

CA

GE:86916

=== Contractor Identification ===

Company Name:SHELL CHEMICAL CO

Address:1 SHELL PLAZA

Box:2463

City:HOUSTON

State:TX

ZIP:77001

Country:US

CAGE:86916

Company Name:SHELL OIL COMPANY

Address:Box:2463

City:HOUSTON

State:TX

ZIP:77210

Country:US

Phone:800-231-6950

CAGE:54527

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

Ingred Name:BENZENE (SARA III)

CAS:71-43-2

RTECS #:CY1400000

Fraction by Wt: 100%

OSHA PEL:1PPM/5STEL;1910.1028

ACGIH TLV:10 PPM; A2; 9192

EPA Rpt Q

ty:10 LBS  
DOT Rpt Qty:10 LBS

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

Effects of Overexposure:FATIGUE, NAUSEA AND HEADACHE WHICH MAY BE FOLLOWED BY CONVULSIONS, LOSS OF CONSCIOUSNESS AND DEATH.\*

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

First Aid:INHALE: RMV TO FRESH AIR. IF NOT BRTHG GIVE CPR. IF BRTHG DIFFICULT GIVE OXYGEN. INJEST: DO NOT INDUCE VOMITING. CONTACT: IMMED FLUSH EYES OR SKIN W/ PLENTY OF WATER. RMV CONTAM CLTH G & SHOES. CALL A PHYSICIAN

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

Flash Point:10F,-12C TCC  
Lower Limits:1.4  
Upper Limits:7.1  
Extinguishing Media:CO\*2, FOAM, DRY CHEM & H\*2O FOG.  
Fire Fighting Procedures:USE H\*2O TO COOL EXPD CONTRS. USE SCBA & FULL PROT.CLTHG.  
Unusual Fire/Explosion Hazard:DO NOT USE DIRECT STREAM OF WATER. PRODUCT WILL FLOAT & CAN BE REIGNITED ON SURFACE OF WATER

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

Spill Release Procedures:ELIM IGN SOURCES. ISOL HAZ AREA & CLEAR UNAUTHD PERS. WEARRSPTR & PROT CLTHG. SHUT OFF SCE OF LEAK IF SAFE. DIKE & CONTAIN. WATER FOG TO SUPPR VAPOR. RMV W/ VAC TRUCK OR PUMP TO STOR CNTNR. SOAK UP RE SIDUE W/ABSORB. FLUSH AREA W/ WATER.

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

Handling and Storage Precautions:STORE IN COOL,DRY,WELL VENT,LOW FIRE RISK AREA. PROTECT FROM PHYSICAL DAMAGE.AVOID ANY PHYSICAL CONTACT. KEEP CONTAINERS TIGHTLY CLOSED.  
Other Precautions:DO NOT WELD, HEAT OR DRILL ON OR NEAR CONTAINER: EMPTIED CONTAINERS CAN CONTAIN EXPLOSIVE VAPORS.

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

Respiratory Protection:IF EXCED TLV,NIOSH/MSHA APPR SELF-CNTND BRTHG APP (POS PR MODE)  
Ventilation:USE EXPLOSION-PROOF VENTILATION AS REQ RO CNTRL VAPORS.  
Protective Gloves:IMPERVIOUS  
Eye Protection:CHEM SPLASH GOGGLES  
Other Protective Equipment:WEAR IMPERVIOUS CLOTHING/BOOTS.  
Suppl

emental Safety and Health

MSDS DATED 20 APRIL 1982 \* PROLONGED & REPEATED EXPOSURE MAY CAUSE SERIOUS INJURY TO BLOOD FORMING ORGANS. BENZENE IS SUSPECTED OF CARCINOGENIC (LEUKEMIA) POTENTIAL IN MAN.

=====  
Physical/Chemical Properties  
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HCC:F2

Boiling Pt:B.P. Text:175F/79.4C

Vapor Pres:167

Vapor Density:2.8

Spec Gravity:0.88

Evaporation Rate & Reference:5.1 (BUTYL ACETATE

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS LIQUID. AROMATIC HY  
DROCARBON ODOR

Percent Volatiles by Volume:100

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:AVOID HEAT, SPARKS, OPEN FLAME & VAPOR  
ACCUMULATION.

Hazardous Decomposition Products:CARBON MONOXIDE & UNIDENTIFIED ORGANIC  
COMPDS MAY BE FORMED.

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Disposal Considerations  
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Waste Disposal Methods:USE DISPOSAL FACIL APVD UNDER RCRA REG  
ULATIONS

FOR HAZ WASTE. USE NON-LEAKING CNTNR. SEAL TIGHT & LABEL PROPERLY.  
KEEP OUT OF SURFACE WATERS OR SEWERS ENTERING OR LEADING TO SURFACE  
WATERS.

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