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Douglas #1

SHELL OIL COMPANY
SHELL CHEMICAL COMPANY
SHELL DEVELOPMENT COMPANY
SHELL PIPE LINE CORPORATION

MSDS 829-4

HAZARD RATING

3
2 0

MATERIAL SAFETY DATA SHEET

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CASHELL02

SECTION I

MANUFACTURER'S NAME: Shell Chemical Company	EMERGENCY TELEPHONE NO.: 713-473-9461
ADDRESS (Number, Street, City, State, and ZIP Code): P. O. Box 2463, Houston, Texas 77001	
CHEMICAL NAME AND SYNONYMS	TRADE NAME®: SHELL SOL® BT-67-EC
CHEMICAL FAMILY: Hydrocarbon	FORMULA: 83241 WOR; 83237 EOR

SECTION II HAZARDOUS INGREDIENTS*

COMPOSITION	%	SPECIES	LD_{50} ORAL	LD_{50} DERMAL	LC_{50} CONCENTRATION	LC_{50} HOURS
Solvents	100					

SECTION III PHYSICAL DATA

BOILING [redacted] (°F) Range	156-217	SPECIFIC GRAVITY (H_2O=1) @ 60°F	0.694
VAPOR PRESSURE (mmHg) @ 68°F	90	PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)	3.5	EVAPORATION RATE (n-Bu-Ac =1)	5.5
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR: Colorless liquid with hydrocarbon odor.			

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): 0°F T.C.C.	FLAMMABLE LIMITS	Lel: 1.0	Uel: 8.0

EXTINGUISHING MEDIA
Exclude air - use foam, CO_2, dry chemicals

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water except as a fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Treat as highly flammable liquid.

*Modified by Shell Oil Company

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SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 300 ppm (estimated)

EFFECTS OF OVEREXPOSURE
Anesthesia - headache, nausea, dizziness, etc. Liquid mildly to moderately irritating to skin and eyes.

EMERGENCY AND FIRST AID PROCEDURES
Remove victim and restore breathing if required. Remove from skin with soap and water. Flush eyes with water for at least 15 minutes. On ingestion do not induce vomiting, guard against aspiration into lungs, get medical attention.

SECTION VI REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO_2 when combusted

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Avoid open flame or spark sources. Provide adequate ventilation. Use vacuum truck.

WASTE DISPOSAL METHOD
Evaporate or flush with water to an open, well-ventilated area. Use oil sewer if available. Remove to container. Use vacuum truck.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): Organic canister mask or air pack as required.

VENTILATION			
	LOCAL EXHAUST: Desirable	SPECIAL	
	MECHANICAL (General)	OTHER	

PROTECTIVE GLOVES: Normally not required

EYE PROTECTION: Conventional eye cover to guard against unexpected splashing.

OTHER PROTECTIVE EQUIPMENT

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid excessive heat.

OTHER PRECAUTIONS
Avoid open flames and spark sources. Avoid splash-filling. Provide adequate ventilation

NAME: D. M. Sheets, Supervisor
TITLE: Regulatory Affairs-Chemical Products
COMPANY: Shell Oil Company
SIGNATURE: D M Sheets
DATE: July, 1976

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