



SSH
Roder

Conoco Chemicals Company
A Division of Conoco Inc.
5 Greenway Plaza East
P.O. Box 2197
Houston, TX 77001

March 2, 1981

Martin Burniston
Empan Inc.
P.O. Box 897
Deer Park, TX 77536

SUBJECT: Safe Handling of Decene-1

Dear Mr. Burniston:

It is our understanding that you will be using Decene as a solvent to clean our CDR containers. Decene is a relatively non-toxic hydrocarbon (alpha-olefin) that can easily be used safely with the proper precautions. A SHELL material safety data sheet is enclosed for your reference.

Irritation can result from eye or skin contact with the liquid. Rubber gloves and goggles are recommended to avoid this. Effects of exposure to a high concentration of decene vapors are dizziness and general anesthesia. This situation is a possibility in a confined space. Forced air ventilation should be utilized to prevent vapor accumulation, and standard vessel entry procedures should be used. If symptoms of overexposure do occur the victim should be removed to fresh air.

These are general considerations for the safe use of decene. For specific details please refer to the enclosed material safety data sheet. If you have any further questions, feel free to call.

Sincerely,

Thomas G. Grumbles, Director
Industrial Hygiene

ajo

Enclosure

cc Mitch Holtzer
Drew Wilson

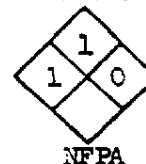
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SHELL OIL COMPANY
SHELL CHEMICAL COMPANY
SHELL DEVELOPMENT COMPANY
SHELL PIPE LINE CORPORATION

MSDS 7180-1

HAZARD
RATING



MATERIAL SAFETY DATA SHEET

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act of 1970 and shall not be used for any other purpose. Use or dissemination of all or any part of this information for any other purpose may result in a violation of law or constitute grounds for legal action.

SECTION I			
MANUFACTURER'S NAME Shell Chemical Company		EMERGENCY TELEPHONE NO. 713-473-9461	
ADDRESS (Number, Street, City, State, and ZIP Code) One Shell Plaza, P. O. Box 2463, Houston, Texas 77001			
CHEMICAL NAME AND SYNONYMS Decene-1		TRADE NAME NEODENE ^(R) 10	
CHEMICAL FAMILY α -Olefin		FORMULA $C_{10}H_{20}$	

SECTION II HAZARDOUS INGREDIENTS*					
COMPOSITION	SPECIES	LD ₅₀		LC ₅₀	
		ORAL	DERMAL	CONCENTRATION	HOURS
(Typical)	Rat	>10 g/kg for all components			
C ₈ Max	3 Rabbit	>10 g/kg for all components			
C ₁₀ Min	92				
C ₁₂ Max	2				

SECTION III PHYSICAL DATA			
BOILING POINT (°F) (°C)	165	SPECIFIC GRAVITY (H ₂ O=1)	0.748
VAPOR PRESSURE (mmHg)	68°F	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	4.8	EVAPORATION RATE (1=1)	
SOLUBILITY IN WATER	Slight		
APPEARANCE AND ODOR	Colorless liquid, mild hydrocarbon odor		

SECTION IV FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
115°F TCC		ca 1	ca 5
EXTINGUISHING MEDIA Foam, CO ₂ , dry chemical, water fog or spray			
SPECIAL FIRE FIGHTING PROCEDURES None			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			
CCR 000000290			