



# MATERIAL SAFETY DATA SHEET

97368 (4-85)

MSDS NUMBER ▶

5,380-11T

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<b>24 HOUR EMERGENCY ASSISTANCE</b>			<b>GENERAL MSDS ASSISTANCE</b>		
SHELL: 713-473-9461 CHEMTREC: 800-424-9300			SHELL: 713-241-4819		
ACUTE HEALTH = + 3	FIRE 4	REACTIVITY 0	HAZARD RATING ▶	LEAST - 0 HIGH - 3	SLIGHT - 1 EXTREME - 4
*For acute and chronic health effects refer to the discussion in Section III					



SECTION I	NAME
PRODUCT ▶	ACETONE
CHEMICAL NAME ▶	2-PROPANONE
CHEMICAL FAMILY ▶	KETONE
SHELL CODE ▶	31125 44700

SECTION II-A	PRODUCT/INGREDIENT	CAS NUMBER	PERCENT
NO.	COMPOSITION		
P	ACETONE	67-64-1	99.5-100

NFPA HAZARD RATING: HEALTH 1 FIRE 3 REACTIVITY 0

SECTION II-B	ACUTE TOXICITY DATA		
NO.	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
P	9.75 G/KG (RAT)	20.0 G/KG (RABBIT)	16,000 PPM/4H (RAT)

## SECTION III HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

### EYE CONTACT

LIQUID IS SEVERELY IRRITATING TO THE EYES. HIGH VAPOR CONCENTRATIONS ARE ALSO IRRITATING.

### SKIN CONTACT

LIQUID IS MILDLY IRRITATING TO THE SKIN. PROLONGED OR REPEATED LIQUID CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS.

### INHALATION

HIGH VAPOR CONCENTRATIONS MAY PRODUCE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

### INGESTION

MAY PRODUCE CNS DEPRESSION.

### SIGNS AND SYMPTOMS

IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.

**AGGRAVATED MEDICAL CONDITIONS**

PREEXISTING EYE AND SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO ACETONE.

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**SECTION IV OCCUPATIONAL EXPOSURE LIMITS**  
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NO.	OSHA		ACGIH		OTHER
	PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL	
P	750 PPM		750 PPM	1000 PPM	1000 PPM*

\* OSHA PEL/STEL

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**SECTION V EMERGENCY AND FIRST AID PROCEDURES**  
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**EYE CONTACT**

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

**SKIN CONTACT**

FLUSH SKIN WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

**INHALATION**

REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

**INGESTION**

DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC.\* IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

**NOTE TO PHYSICIAN**

\*IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15CC (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

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**SECTION VI SUPPLEMENTAL HEALTH INFORMATION**  
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NONE IDENTIFIED.

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**SECTION VII PHYSICAL DATA**  
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BOILING POINT: 133 (DEG F)	SPECIFIC GRAVITY: 0.79 @ (H2O=1) 60 DEG F	VAPOR PRESSURE: 185.5 @ (MM HG) 60 DEG F
MELTING POINT: -139 (DEG F)	SOLUBILITY: COMPLETE (IN WATER)	VAPOR DENSITY: 2.0 (AIR=1)
EVAPORATION RATE (N-BUTYL ACETATE = 1): 5.6		VOC: 100% @ 6.55 LB/GAL @77 DEG F



TIGHTLY FOR PROPER DISPOSAL.

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SECTION XII SPECIAL PRECAUTIONS  
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KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE; FLASH-FIRE CAN RESULT. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION.

CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS. DO NOT PRESSURIZE DRUM CONTAINERS TO EMPTY THEM.

STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT. BOND AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.

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SECTION XIII TRANSPORTATION REQUIREMENTS  
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DEPARTMENT OF TRANSPORTATION CLASSIFICATION:  
CLASS 3 (FLAMMABLE LIQUIDS), II

D.O.T. PROPER SHIPPING NAME:  
ACETONE

OTHER REQUIREMENTS:  
UN1090, GUIDE 26

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SECTION XIV OTHER REGULATORY CONTROLS  
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THIS PRODUCT IS LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

PROTECTION OF STRATOSPHERIC OZONE (PURSUANT TO SECTION 611 OF THE CLEAN AIR ACT AMENDMENTS OF 1990): PER 40 CFR PART 82, THIS PRODUCT DOES NOT CONTAIN NOR WAS IT DIRECTLY MANUFACTURED WITH ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.

IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS.

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SECTION XV STATE REGULATORY INFORMATION  
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THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES; OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

STATE LISTED COMPONENT	PERCENT	STATE CODE
ACETONE (CAS NO: 67-44-1 )	99.5-100	CA, CT, FL, IL, LA, MA, ME, MN, NJ, PA, RI

PRODUCT NAME: ACETONE

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CA = CALIFORNIA HAZ. SUBST. LIST; CA65 = CALIFORNIA SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT LIST; CT = CONNECTICUT TOX. SUBST. LIST; FL = FLORIDA SUBST. LIST; IL = ILLINOIS TOX. SUBST. LIST; LA = LOUISIANA HAZ. SUBST. LIST; MA = MASSACHUSETTS SUBST. LIST; ME = MAINE HAZ. SUBST. LIST; MN = MINNESOTA HAZ. SUBST. LIST; NJ = NEW JERSEY HAZ. SUBST. LIST; PA = PENNSYLVANIA HAZ. SUBST. LIST; RI = RHODE ISLAND HAZ. SUBST. LIST.

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**SECTION XVI**

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**SPECIAL NOTES**  
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THIS MSDS REVISION HAS CHANGES IN SECTION VIII AND SECTION II OF THE EDS. A SPANISH TRANSLATION OF THIS MSDS MAY BE OBTAINED BY CALLING 1-800-240-MSDS.

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THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, SHELL MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SHELL ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.  
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DATE PREPARED: JULY 24, 1995  
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J. C. WILLETT  
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**BE SAFE**  
**READ OUR PRODUCT**  
**SAFETY INFORMATION ... AND PASS IT ON**  
**(PRODUCT LIABILITY LAW**  
**REQUIRES IT)**

**SHELL OIL COMPANY**  
**PRODUCT SAFETY AND COMPLIANCE**  
**P. O. BOX 4320**  
**HOUSTON, TX 77210**



# ENVIRONMENTAL DATA SHEET

EDS NUMBER ▶ 5,380-1

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97449 (9-87)

PRODUCT ▶ ACETONE

PRODUCT  
CODE ▶ 31125 44700**SECTION I****PRODUCT/COMPOSITION**

NO.	COMPONENT	CAS NUMBER	PERCENT
P	ACETONE	67-64-1	99.5-100

**SECTION II****SARA TITLE III INFORMATION**

NO.	EHS RQ (LBS) (*1)	EHS TPQ (LBS) (*2)	SEC 313 (*3)	313 CATEGORY (*4)	311/312 CATEGORIES (*5)
P					H-1, H-2, P-3

**FOOTNOTES**

- \*1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC. 302
- \*2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
- \*3 = TOXIC CHEMICAL, SEC 313
- \*4 = CATEGORY AS REQUIRED BY SEC 313 (40 CFR 372.65 C), MUST BE USED ON TOXIC RELEASE INVENTORY FORM
- \*5 = HAZARD CATEGORY FOR SARA SEC. 311/312 REPORTING
  - HEALTH H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD H-2 = DELAYED (CHRONIC) HEALTH HAZARD
  - PHYSICAL P-3 = FIRE HAZARD P-4 = SUDDEN RELEASE OF PRESSURE HAZARD
  - P-5 = REACTIVE HAZARD

**SECTION III****ENVIRONMENTAL RELEASE INFORMATION**

EPA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT. UNDER EPA-CERCLA ("SUPERFUND") RELEASES TO AIR, LAND OR WATER WHICH EXCEED THE REPORTABLE QUANTITY MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802.

THE REPORTABLE QUANTITY (RQ) FOR THIS PRODUCT IS 5,000 LBS.

**SECTION IV****RCRA INFORMATION**

UNDER EPA - RCRA (40 CFR 261.33), IF ACETONE BECOMES A WASTE MATERIAL, IT WOULD BE A HAZARDOUS WASTE, HAZARDOUS WASTE NUMBER U002.

UNDER EPA - RCRA (40 CFR 261.21), IF THIS PRODUCT BECOMES A WASTE MATERIAL, IT WOULD BE AN IGNITABLE HAZARDOUS WASTE, HAZARDOUS WASTE NUMBER D001. REFER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

PRODUCT NAME: ACETONE

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DATE PREPARED: JULY 24, 1985  
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SHELL OIL COMPANY  
CORPORATE ENVIRONMENTAL AFFAIRS  
P. O. BOX 4320  
HOUSTON, TX 77210

FOR ADDITIONAL INFORMATION ON THIS ENVIRONMENTAL DATA PLEASE CALL  
(713) 241-2252

FOR EMERGENCY ASSISTANCE PLEASE CALL  
SHELL: (713) 473-9481  
CHENTREC: (800) 424-9300