

ALBIDA (R) LC GREASE 2

70311

02/20/98

SHELL MATERIAL SAFETY DATA SHEET
BE SAFE. READ OUR PRODUCT SAFETY INFORMATION ... AND PASS IT ON.
PRODUCT LIABILITY LAW REQUIRES IT!

******* MATERIAL SAFETY DATA SHEET 57070 - 04 *******

ALBIDA(R) LC GREASE 2

SH MSDS: 57070 - 04

02/20/98

MANUFACTURER'S NAME AND ADDRESS

SHELL OIL COMPANY

PRODUCT SAFETY & COMPLIANCE

P.O. BOX 4320

HOUSTON, TX 77210

TELEPHONE NUMBERS:

24 HOUR EMERGENCY ASSISTANCE

SHELL: 713-473-9461

CHEMTREC: 800-424-9300

GENERAL MSDS ASSISTANCE

SHELL: 713-241-4819

SECTION II**NAME**

PRODUCT:	ALBIDA(R) LC GREASE 2		
CHEM NAME:	MIXTURE (SEE SECTION II-A)	ACUTE HEALTH HAZARD:	1
CHEM FAMILY:	PETROLEUM HYDROCARBON; LUBRICATING GREASE	FIRE HAZARD:	1
SHELL CODE:		70311 REACTIVITY:	0

SECTION II-A**PRODUCT/INGREDIENT**

NO. COMPOSITION	CAS	PERCENT
=====		
PALBIDA LC GREASE 2	MIXTURE	100
1 HIGHLY REFINED PETROLEUM OILS	MIXTURE*	75-80
2 THICKENING SYSTEM	MIXTURE	20-25
3 ADDITIVES CONTAINING:	MIXTURE	8-9
3A ZINC COMPOUNDS	MIXTURE	1-2
* MAY CONTAIN: 64742-54-7, 64742-57-0		
NFPA HAZARD RATING:	HEALTH 0	FIRE 1 REACTIVITY 0

SECTION II-B**ACUTE TOXICITY DATA**

NO. ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
=====		
P NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
1 >5.0 G/KG (RAT)*	>5.0 G/KG (RABBIT)*	NOT AVAILABLE
* BASED ON API STUDIES.		

SECTION III**HEALTH INFORMATION**

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

EYE CONTACT:

MAY BE MILDLY IRRITATING TO THE EYES.

SKIN CONTACT:

PROLONGED OR REPEATED CONTACT MAY CAUSE VARIOUS SKIN DISORDERS SUCH AS
DERMATITIS, FOLLICULITIS OR OIL ACNE. RELEASE DURING HIGH PRESSURE USAGE
MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING LOCAL NECROSIS.

INHALATION:

NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE, HOWEVER, UNDER HIGH
TEMPERATURE CONDITIONS, VAPORS IRRITATING TO THE NOSE, THROAT AND UPPER
RESPIRATORY TRACT MAY BE PRODUCED.

INGESTION:

NO SPECIFIC INFORMATION IDENTIFIED. SEE SECTION VI.

SIGNS AND SYMPTOMS:

IRRITATION AS NOTED ABOVE. LOCAL NECROSIS IS EVIDENCED BY DELAYED ONSET OF
PAIN AND TISSUE DAMAGE A FEW HOURS FOLLOWING INJECTION.

AGGRAVATED MEDICAL CONDITIONS:

PREEXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

OTHER HEALTH EFFECTS:

OTHER HEALTH EFFECTS: THIS PRODUCT AND ITS COMPONENTS ARE NOT CLASSIFIED AS CAR-
CINOGENS BY INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), NATIONAL TOX-
ICOLOGY PROGRAM (NTP) OR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
THIS SPECIFIC PRODUCT HAS NOT BEEN TESTED IN LONG-TERM, CHRONIC EXPOSURE TESTS.
LUBRICATING GREASES ARE GENERALLY CONSIDERED TO BE OF A LOW ORDER OF ACUTE TOX-
ICITY TO HUMANS AND EXPERIMENTAL ANIMALS. HOWEVER, THE HANDLING PROCEDURES AND
SAFETY PRECAUTIONS IN THIS MSDS SHOULD BE FOLLOWED TO MINIMIZE EMPLOYEE'S EXPO-
SURE.

SECTION IV		OCCUPATIONAL EXPOSURE LIMITS				
NO.	PEL/TWA	OSHA		ACGIH		OTHER
		PEL/CEILING	TLV/TWA		TLV/STEL	
=====						

NO OSHA/PEL OR ACGIH/TLV HAS BEEN ESTABLISHED.

SECTION V		EMERGENCY AND FIRST AID PROCEDURES				
-----------	--	------------------------------------	--	--	--	--

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL
ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND WIPE EXCESS OFF. WASH WITH SOAP AND WATER OR A WATERLESS HAND CLEANER FOLLOWED BY SOAP AND WATER. DO NOT RE-USE CLOTHING UNTIL THOROUGHLY CLEANED. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. IF MATERIAL IS INJECTED UNDER THE SKIN, GET MEDICAL ATTENTION PROMPTLY TO PREVENT SERIOUS DAMAGE; DO NOT WAIT FOR SYMPTOMS TO DEVELOP.

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

INGESTION: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER, GET MEDICAL ADVICE.*

NOTE TO PHYSICIAN: *NOTE TO THE PHYSICIAN: IN GENERAL, EMESIS INDUCTION IS UNNECESSARY IN HIGH VISCOSITY, LOW VOLATILITY PRODUCTS, I.E., MOST OILS AND GREASES.

SECTION VI

SUPPLEMENTAL HEALTH INFORMATION

NONE IDENTIFIED.

SECTION VII

PHYSICAL DATA

BOILING POINT (DEG F): NOT AVAILABLE	SPECIFIC GRAVITY (H2O=1): NOT AVAILABLE	VAPOR PRESSURE (MM HG): NOT AVAILABLE
---	--	--

MELTING POINT (DEG F): 557.6 (DROPPING POINT)	SOLUBILITY (IN WATER): INSOLUBLE	VAPOR DENSITY (AIR=1): NOT AVAILABLE
---	-------------------------------------	---

EVAPORATION RATE (NORM~L BUTYL ACETATE = 1): NOT AVAILABLE

APPEARANCE AND ODOR: BLUE SMOOTH GREASE, SLIGHT ODOR.

SECTION VIII

FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD:
455 DEG F. PMCC (BASE OIL)

FLAMMABLE LIMITS/% VOLUME IN AIR:
LOWER: N/AV UPPER: N/AV

EXTINGUISHING MEDIA:

USE WATER FOG, DRY CHEMICAL OR CO₂. DO NOT USE A DIRECT STREAM OF WATER.
PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

DO NOT ENTER CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT INCLUDING A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE CONTAINERS SURROUNDING EQUIPMENT AND STRUCTURES WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SECTION IX

REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, OPEN FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID PARTICULATES AND GASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES PYROLYSIS OR COMBUSTION. CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.

SECTION X

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION:

NOT ORDINARILY; IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

PROTECTIVE CLOTHING:

USE OIL RESISTANT GLOVES AND OTHER CLOTHING AS NEEDED TO MINIMIZE SKIN CONTACT.

ADDITIONAL PROTECTIVE MEASURES:

SECTION XI

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES:

SCOOP UP EXCESS GREASE. CLEAN AREA WITH APPROPRIATE CLEANER.

SECTION XII**SPECIAL PRECAUTIONS**

STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, THAT CANNOT BE DECONTAMINATED.

SECTION XIII**TRANSPORTATION REQUIREMENTS**

DEPARTMENT OF TRANSPORTATION CLASSIFICATION:
NOT HAZARDOUS BY D.O.T. REGULATIONS

D.O.T. PROPER SHIPPING NAME:

OTHER REQUIREMENTS:

SECTION XIV**OTHER REGULATORY CONTROLS**

THE COMPONENTS OF THIS PRODUCT ARE 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 ATTACHED ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS.

SECTION XIV**STATE REGULATORY INFORMATION**

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	CAS NUMBER	PERCENT	STATE CODE
ZINC COMPOUNDS	NONE	1-2	CT, FL, IL, LA, MA, NJ, PA, RI

CA = CALIFORNIA HAZ. SUBST. LIST; CA65C, CA65R, CA65CJR = CALIFORNIA SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT OF 1986 OR PROPOSITION 65 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 BA2. SUBST. LIST; NJ = NEW JERSEY

SECTION XVII

SPECIAL NOTES

MSDS REVISED IN SECTIONS II-A, II-B, VII, VIII AND EDS SECTION I AND III.

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.

WE ARE PROVIDING OUR MOST RECENT MATERIAL SAFETY DATA SHEET AND/OR ENVIRONMENTAL DATA SHEET. IF YOU WISH TO RECEIVE UPDATES TO THIS INFORMATION, PLEASE CALL SHELL'S GENERAL MSDS ASSISTANCE LINE (713-241-4819) TO ENSURE THAT YOU ARE ADDED TO SHELL'S REGULAR MSDS DISTRIBUTION SYSTEM.

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 57070 - 04*****

EDS: 57070 - 04 02/20/98

PRODUCT NAME: ALBIDA(R) LC GREASE 2

PRODUCT CODE: 70311

MANUFACTURER'S NAME AND ADDRESS

SHELL OIL COMPANY
P.O. BOX 4320
HOUSTON, TX 77210

TELEPHONE NUMBERS:

24 HOUR EMERGENCY ASSISTANCE

SHELL: 713-473-9461 CHEMTREC: 800-424-9300

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

SECTION I

PRODUCT COMPOSITION

NO. COMPOSITION

CAS

PERCENT

=====

P	ALBIDA LC GREASE 2	MIXTURE	100
1	HIGHLY REFINED PETROLEUM OILS	MIXTURE*	75-80

2	THICKENING SYSTEM	MIXTURE 20–25
3	ADDITIVES CONTAINING:	MIXTURE 8–9
3A	ZINC COMPOUNDS	MIXTURE 1–2

SECTION II
SARA TITLE III INFORMATION

NO. EHS RQ*	EHS TPQ*	SEC–313	313 CATEGORY	311/312 CATEGORY
(*1)	(*2)	(*3)	(*4)	(*5)

=====

3A	YES	ZINC COMPOUND
----	-----	---------------

*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 372.42), 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
	P–5 = REACTIVE HAZARD

SECTION III
ENVIRONMENTAL RELEASE INFORMATION

THIS PRODUCT IS COVERED BY EPA'S COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA) PETROLEUM EXCLUSION. THEREFORE, RELEASES TO AIR, LAND, OR WATER ARE NOT REPORTABLE UNDER CERCLA ("SUPERFUND"). HOWEVER, UNDER SECTION 311 OF EPA'S CLEAN WATER ACT (CWA), THIS PRODUCT IS CONSIDERED AN OIL. AS SUCH, SPILLS INTO OR LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800–424–8802.

SECTION IV
RCRA INFORMATION

IF THIS PRODUCT BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE BY RCRA CRITERIA (40 CFR 261). PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS.

WE ARE PROVIDING OUR MOST RECENT MATERIAL SAFETY DATA SHEET AND/OR ENVIRONMENTAL DATA SHEET. IF YOU WISH TO RECEIVE UPDATES TO THIS INFORMATION, PLEASE CALL SHELL'S GENERAL MSDS ASSISTANCE LINE (713–241–4819) TO ENSURE THAT YOU ARE ADDED TO SHELL'S REGULAR MSDS DISTRIBUTION SYSTEM.

SHELL OIL COMPANY
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) 473-9461

CHEMTREC: (800) 424-9300

THIS MSDS HAS BEEN PROVIDED IN AN ELECTRONIC FORMAT FOR USE IN THE CHEMTREC EMERGENCY RESPONSE PROGRAM AND/OR OTHER APPROVED PROGRAMS. THIS FORMAT MAY CONTAIN BLANKS WHERE INFORMATION WAS NOT AVAILABLE OR NOT APPLICABLE AND THEREFORE MAY NOT BE FULLY COMPLIANT WITH THE OSHA HAZARD COMMUNICATION STANDARD. IF YOU PURCHASE OR USE THIS SHELL PRODUCT AND HAVE NOT RECEIVED A MSDS FROM SHELL PLEASE CONTACT US AND WE WILL PROVIDE ONE. THIS WILL ENSURE THAT YOU RECEIVE UPDATES OF THIS INFORMATION.
