
SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: ANDOK C
ALL SYNONYMS : ANDOK C
ANDOK-C
CLUTCH RELEASE BEARING GREASE
D-33305
GMP49 SEALER PROTECTIVE
H9IIE0
NA0226
OL-143
OLI-143
SAG 17312084
SSG SPEC 2084A
12378484
335508 (OLD FID)
419120-04787
419120-04787 ANDOK C
42017-HMC124
5350 001
58001HM103
9G03050-55
9985088

SAFE USE CATEGORY AND DESCRIPTION: 04 -METAL WORKING FLUIDS AND LUBRICANTS

LAST UPDATED DATE: 1999-08-30

MANUFACTURER'S ID (MID): 000519500
MANUFACTURER'S NAME: EXXON CO USA
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 800-424-9300
US 713-656-3424 MEDICAL EMERG

MANUFACTURER'S MAILING ADDRESS:
P.O. BOX 2180
HOUSTON TX 77252-2180
US

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS#	FORMULATION	W/V	CHEMICAL NAME
000822162	= 32.0000/	0.0000%	W STEARIC ACID, SODIUM SALT
005285609	= 0.5000/	0.0000%	W Benzenamine, 4,4'-methylenebis[N-(1-methylpropyl)-
064742525	= 66.0000/	0.0000%	W MINERAL OIL, PETROLEUM DISTILLATES , HYDROTREATED (severe) HEAVY NAPH THENIC
064742536	= 66.0000/	0.0000%	W MINERAL OIL, PETROLEUM DISTILLATES , HYDROTREATED (severe) LIGHT NAPH THENIC

068608264 < 0.0000/ 1.0000% W SULFONIC ACIDS, PETROLEUM, SODIUM
SALTS
989922746 < 0.0000/ 0.5000% W ADDITIVES

SECTION 2 - OTHER INFORMATION: THIS PRODUCT, AS MANUFACTURED BY EXXON, DOES NOT CONTAIN POLYCHLORINATED BIPHENYLS (PCB'S). EXPOSURE LIMIT FOR TOTAL PRODUCT: 5 MG/M3 FOR OIL MIST (AEROSOL) FOR AN 8-HOUR WORKDAY. BASIS: OSHA REGULATION 29 CFR 1910.1000 AND RECOMMENDED BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH). ACGIH STATES THAT THE AIR IS TO BE SAMPLED BY A METHOD THAT DOES NOT COLLECT VAPOR, IN ADDITION, IT LISTS A 10 MG/M3 STEL. CAS #'S 64742525 AND 64742536 TOGETHER COMPRISE 66% OF THE TOTAL PRODUCT.

CERCLA (SUPERFUND) REPORTABLE QUANTITY (LBS): THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355 (SARA SECTIONS 301-304): NO TPQ FOR PRODUCT OR ANY CONSTITUENT GREATER THAN 1% OR 0.1% (CARCINOGEN).

SARA 313: TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA SECTION 313): NO TOXIC CHEMICAL IS PRESENT GREATER THAN 1% OR 0.1% (CARCINOGEN).

SECTION 03: HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTE INDICATORS:

SKIN PRIMARY ENTRY ROUTE INDICATOR =	Y
EYE PRIMARY ENTRY ROUTE INDICATOR =	Y
INHALATION PRIMARY ENTRY ROUTE INDICATOR =	Y
INGESTION PRIMARY ENTRY ROUTE INDICATOR =	Y

EFFECTS OF OVEREXPOSURE: NATURE OF HAZARD AND TOXICITY INFORMATION: REPEATED AND PROLONGED OVEREXPOSURE TO OIL MISTS MAY RESULT IN DROPLET DEPOSITION, OIL GRANULOMA FORMATION, INFLAMMATION AND INCREASED INCIDENCE OF INFECTION.

EFFECTS OF OVEREXPOSURE - SKIN: PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE SKIN IRRITATION AND/OR DERMATITIS. PROLONGED OR REPEATED SKIN CONTACT WITH THIS PRODUCT TENDS TO REMOVE SKIN OILS, POSSIBLY LEADING TO IRRITATION AND DERMATITIS; HOWEVER, BASED ON HUMAN EXPERIENCE AND AVAILABLE TOXICOLOGICAL DATA, THIS PRODUCT IS JUDGED TO BE NEITHER A CORROSIVE NOR AN IRRITANT BY OSHA CRITERIA.

EFFECTS OF OVEREXPOSURE - SKIN ACUTE: PRODUCT HAS A LOW ORDER OF ACUTE DERMAL TOXICITY.

EFFECTS OF OVEREXPOSURE - EYE: PRODUCT CONTACTING THE EYES MAY CAUSE EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - INGESTION ACUTE: PRODUCT HAS A LOW ORDER OF ACUTE ORAL TOXICITY BUT MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVERE PULMONARY INJURY AND POSSIBLY DEATH.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE RECOGNIZED

ADDITIONAL HEALTH HAZARD DATA: VARIABILITY AMONG INDIVIDUALS: HEALTH STUDIES HAVE SHOWN THAT MANY PETROLEUM HYDROCARBONS AND SYNTHETIC LUBRICANTS POSE POTENTIAL HUMAN HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON. AS A PRECAUTION, EXPOSURE TO LIQUIDS, VAPORS, MISTS OR FUMES SHOULD BE MINIMIZED.

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - SKIN: IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER. LAUNDRY OR DRY-CLEAN CLOTHING BEFORE REUSE. IF PRODUCT IS INJECTED INTO OR UNDER THE SKIN, OR INTO ANY PART OF THE BODY, REGARDLESS OF THE APPEARANCE OF THE WOUND OR ITS SIZE, THE INDIVIDUAL SHOULD BE EVALUATED IMMEDIATELY BY A PHYSICIAN AS A SURGICAL EMERGENCY. EVEN THOUGH INITIAL SYMPTOMS FROM HIGH PRESSURE INJECTION MAY BE MINIMAL OR ABSENT, EARLY SURGICAL TREATMENT WITHIN THE FIRST FEW HOURS MAY SIGNIFICANTLY REDUCE THE ULTIMATE EXTENT OF INJURY.

EMERGENCY FIRST AID PROCEDURES - EYES: IF LUBRICANT GETS INTO THE EYES, FLUSH WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, CALL A PHYSICIAN.

EMERGENCY FIRST AID PROCEDURES - INHALATION: VAPOR PRESSURE IS LOW. VAPOR INHALATION UNDER AMBIENT CONDITIONS IS NORMALLY NOT A PROBLEM. IF OVERCOME BY VAPOR FROM HOT PRODUCT, IMMEDIATELY REMOVE FROM EXPOSURE AND CALL A PHYSICIAN. IF BREATHING IS IRREGULAR OR HAS STOPPED, START RESUSCITATION; ADMINISTER OXYGEN, IF AVAILABLE. IF OVEREXPOSED TO OIL MIST, REMOVE FROM FURTHER EXPOSURE UNTIL EXCESSIVE OIL MIST CONDITION SUBSIDES.

EMERGENCY FIRST AID PROCEDURES - INGESTION: IF INGESTED, DO NOT INDUCE VOMITING; CALL A PHYSICIAN IMMEDIATELY.

SECTION 05: FIRE-FIGHTING MEASURES

FLAMMABLE LEL: = 0.90

FLAMMABLE UEL: = 7.00

EXTINGUISHING MEDIA: FOAM, WATER SPRAY (FOG), DRY CHEMICAL, CARBON DIOXIDE AND VAPORIZING LIQUID TYPE EXTINGUISHING AGENTS MAY ALL BE SUITABLE FOR EXTINGUISHING FIRES INVOLVING THIS TYPE OF PRODUCT, DEPENDING ON SIZE OR POTENTIAL SIZE OF FIRE AND CIRCUMSTANCES RELATED TO THE SITUATION. PLAN FIRE PROTECTION AND RESPONSE STRATEGY THROUGH CONSULTATION WITH LOCAL FIRE PROTECTION AUTHORITIES OR APPROPRIATE SPECIALITIES. THE FOLLOWING PROCEDURES FOR THIS TYPE OF PRODUCT ARE BASED ON THE RECOMMENDATION IN THE NATIONAL FIRE PROTECTION ASSOCIATION'S FIRE PROTECTION GUIDE ON HAZARDOUS MATERIALS, TENTH EDITION (1991): USE WATER SPRAY, DRY CHEMICAL, FOAM OR CARBON DIOXIDE TO EXTINGUISH THE FIRE.

SPECIAL FIRE FIGHTING PROCEDURES: THE FOLLOWING PROCEDURES FOR THIS TYPE OF PRODUCT ARE BASED ON THE RECOMMENDATION IN THE NATIONAL FIRE PROTECTION ASSOCIATION'S FIRE PROTECTION GUIDE ON HAZARDOUS MATERIALS, TENTH EDITION (1991): USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND TO PROVIDE PROTECTION FOR PERSONS ATTEMPTING TO STOP A LEAK. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURES. MINIMIZE BREATHING OF GASES, VAPOR, FUMES OR DECOMPOSITION PRODUCTS. USE SUPPLIED-AIR BREATHING EQUIPMENT FOR ENCLOSED OR CONFINED SPACES OR AS OTHERWISE NEEDED.

HMS CODES:

HMS REACTIVITY CODE =

0

HMS HEALTH CODE =

1

HMIS FLAMMABILITY CODE = 1
NFPA CODES:
NFPA FLAMMABILITY CODE = 1
NFPA HEALTH CODE = 1
NFPA REACTIVITY CODE = 0

AUTO-IGNITION TEMPS: > 260.00C/ 500.00F

FLASH POINT TEMPS: = 174.00C/ 345.00F
FLASH POINT METHOD: COC
FLASH POINT METHOD TEXT: ASTM D 92; CLEVELAND OPEN CUP

SECTION 5 - OTHER INFORMATION: FLAMMABLE OR EXPLOSIVE LIMITS
(APPROXIMATE PERCENT BY VOLUME IN AIR): ESTIMATED VALUES. DECOMPOSITION
PRODUCTS UNDER FIRE CONDITIONS: FUMES, SMOKE, CARBON MONOXIDE, SULFUR
OXIDES, METAL OXIDES, ALDEHYDES AND OTHER DECOMPOSITION PRODUCTS, IN
THE CASE OF INCOMPLETE COMBUSTION.

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: RECOVER FREE PRODUCT. ADD SAND, EARTH, OR
OTHER SUITABLE ABSORBENT TO SPILL AREA. MINIMIZE SKIN CONTACT. KEEP
PRODUCT OUT OF SEWERS AND WATERCOURSES BY DIKING OR IMPOUNDING. ADVISE
AUTHORITIES IF PRODUCT HAS ENTERED OR MAY ENTER SEWERS, WATERCOURSES,
OR EXTENSIVE LAND AREAS. ASSURE CONFORMITY WITH APPLICABLE GOVERNMENTAL
REGULATIONS.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP CONTAINERS CLOSED
WHEN NOT IN USE. DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG
OXIDANTS. IN ORDER TO PREVENT FIRE OR EXPLOSION HAZARDS, USE
APPROPRIATE EQUIPMENT. INFORMATION ON ELECTRICAL EQUIPMENT APPROPRIATE
FOR USE WITH THIS PRODUCT MAY BE FOUND IN THE LATEST EDITION OF THE
NATIONAL ELECTRICAL CODE (NFPA-70). THIS DOCUMENT IS AVAILABLE FROM THE
NATIONAL FIRE PROTECTION ASSOCIATION, BATTERYMARCH PARK, QUINCY
MASSACHUSETTS 02269. EMPTY CONTAINER WARNING: EMPTY CONTAINERS RETAIN
RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE,
CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO
HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION:
THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. DO NOT ATTEMPT TO CLEAN
SINCE RESIDUE IS DIFFICULT TO REMOVE. EMPTY DRUMS SHOULD BE COMPLETELY
DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER.
ALL OTHER CONTAINERS SHOULD BE DISPOSED ON IN AN ENVIRONMENTALLY SAFE
MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS. FOR WORK ON
TANKS REFER TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
REGULATIONS, ANSI Z49.1, AND OTHER GOVERNMENTAL AND INDUSTRIAL
REFERENCES PERTAINING TO CLEANING, REPAIRING, WELDING, OR OTHER
CONTEMPLATED OPERATIONS. EMPTY DRUM LINERS RETAIN RESIDUE (SOLID,
LIQUID AND/OR VAPOR) THAT WILL BURN AND CAN BE DANGEROUS. KEEP AWAY
FROM HEAT, SPARKS, FLAMES, STATIC ELECTRICITY OR OTHER SOURCES OF
IGNITION. DO NOT REUSE LINERS FOR ANY PURPOSE WHATSOEVER. LINERS SHOULD
BE EMPTIED OF CONTENTS TO THE MAXIMUM EXTENT PRACTICAL, THEN SEGREGATED
FROM LINERS CONTAINING OTHER PRODUCTS. DISPOSE OF EMPTY LINERS IN AN

ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS.

SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: USE SPLASH GOGGLES OR FACE SHIELD WHEN EYE CONTACT MAY OCCUR.

SKIN PROTECTION: USE CHEMICAL-RESISTANT APRON OR OTHER IMPERVIOUS CLOTHING, IF NEEDED, TO AVOID CONTAMINATING REGULAR CLOTHING, WHICH COULD RESULT IN PROLONGED OR REPEATED SKIN CONTACT.

RESPIRATORY PROTECTION: USE SUPPLIED-AIR RESPIRATORY PROTECTION IN CONFINED OR ENCLOSED SPACES, IF NEEDED.

VENTILATION: IF NECESSARY, PROVIDE VENTILATION SUFFICIENT TO PREVENT EXCEEDING RECOMMENDED EXPOSURE LIMIT OR BUILDUP OF EXPLOSIVE CONCENTRATIONS OF VAPOR IN AIR.

WORKPLACE/HYGIENIC PRACTICES: NO SMOKING OR USE OF FLAME OR OTHER IGNITION SOURCES. MINIMIZE BREATHING VAPOR, MIST OR FUMES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. REMOVE CONTAMINATED CLOTHING; LAUNDRY OR DRY-CLEAN BEFORE REUSE. REMOVE CONTAMINATED SHOES AND THOROUGHLY CLEAN BEFORE REUSE; DISCARD IF OIL-SOAKED. CLEANSE SKIN THOROUGHLY AFTER CONTACT, BEFORE BREAKS AND MEALS, AND AT END OF WORK PERIOD. PRODUCT IS READILY REMOVED FROM SKIN BY WATERLESS HAND CLEANERS FOLLOWED BY WASHING THOROUGHLY WITH SOAP AND WATER.

PROTECTIVE GLOVES (SPECIFY TYPE): USE CHEMICAL-RESISTANT GLOVES, IF NEEDED, TO AVOID PROLONGED OR REPEATED SKIN CONTACT.

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT TEMPS: = 293.00C/ 560.00F
BOILING POINT TEXT: IBP APPROXIMATELY, BY ASTM 0 2887

MELTING/FREEZE POINT TEMPS: > 260.00C/ 500.00F

SPECIFIC GRAVITY VALUES: = 0.9500
SPECIFIC GRAVITY TEXT: 15.5C/15.6C

VAPOR DENSITY VALUES: > 5.0000
VAPOR DENSITY TEXT: AIR=1
VAPOR PRESSURE VALUES/UOM: < 0.0100MMHG
VAPOR PRESSURE TEXT: AT 20C

EVAPORATION RATE VALUES: < 0.01
EVAPORATION RATE TEXT: AT 1 ATM AND 25C (77F) (N-BUTYL ACETATE=1).

SOLUBILITY IN WATER VALUES/UOM: < 0.1000
SOLUBILITY IN WATER TEXT: PERCENT; AT 1 ATM AND 25C (77F), NEGLIGIBLE.

PH OF PRODUCT IN SOLUTION WITH WATER/TEXT: ESSENTIALLY NEUTRAL

APPEARANCE: SMOOTH, DARK BROWN GREASE

ODOR: MILD, BLAND ODOR.

MOLECULAR WEIGHT TEXT: NOT DETERMINED

VISCOSITY TEXT: 205 WORKED PENETRATION, MM/10 AT 25C, ASTM D 217

PHYSICAL STATE: SOL

SECTION 9 - OTHER INFORMATION: THE DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSE.

SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y

STABILITY - TEXT: THIS PRODUCT IS STABLE AND WILL NOT REACT VIOLENTLY WITH WATER.

INCOMPATIBLE MATERIALS: AVOID CONTACT WITH STRONG OXIDANTS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE, CALCIUM HYPOCHLORITE, ETC., AS THIS PRESENTS A SERIOUS EXPLOSION HAZARD.

HAZARDOUS DECOMPOSITION PRODUCTS: FUMES, SMOKE, CARBON MONOXIDE, SULFUR OXIDES, METAL OXIDES, ALDEHYDES AND OTHER DECOMPOSITION PRODUCTS, IN THE CASE OF INCOMPLETE COMBUSTION.

HAZARDOUS POLYMERIZATION INDICATOR: N

SECTION 11: TOXICOLOGICAL INFORMATION

SKIN EFFECTS: HIS PRODUCT IS JUDGED TO HAVE AN ACUTE DERMAL LD50 (RABBIT) GREATER THAN 3.16 G/KG OF BODY WEIGHT.

ACUTE ORAL EFFECTS: THIS PRODUCT IS JUDGED TO HAVE AN ACUTE ORAL LD50 (RAT) GREATER THAN 5 G/KG OF BODY WEIGHT.

CARCINOGENICITY: IN ACCORDANCE WITH THE CURRENT OSHA HAZARD COMMUNICATION STANDARD CRITERIA, THIS PRODUCT DOES NOT REQUIRE A CANCER HAZARD WARNING. THIS IS BECAUSE THE PRODUCT IS FORMULATED FROM BASE STOCKS WHICH ARE SEVERELY HYDROTREATED, SEVERELY SOLVENT EXTRACTED, AND/OR PROCESSED BY MILD HYDROTREATMENT AND EXTRACTION. ALTERNATIVELY, IT MAY CONSIST OF COMPONENTS NOT OTHERWISE AFFECTED BY IARC CRITERIA, SUCH AS ATMOSPHERIC DISTILLATES OR SYNTHETICALLY DERIVED MATERIALS, AND SUCH IS NOT CHARACTERIZED BY CURRENT IARC CLASSIFICATION CRITERIA.

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION: IN COMPLIANCE WITH HAZARD AND RIGHT-TO-KNOW REQUIREMENTS, WHERE APPLICABLE OSHA HAZARD WARNINGS MAY BE FOUND ON THE LABEL, BILL OF LADING OR INVOICE ACCOMPANYING THIS SHIPMENT. PRODUCT LABEL MAY CONTAIN NON-OSHA RELATED INFORMATION ALSO.

SHIPPING NAME: NOT REGULATED

SECTION 14 - OTHER INFORMATION: TRANSPORTATION INCIDENT INFORMATION:
FOR FURTHER INFORMATION RELATIVE TO SPILLS RESULTING FROM
TRANSPORTATION INCIDENTS, REFER TO LATEST DEPARTMENT OF TRANSPORTATION
EMERGENCY RESPONSE GUIDEBOOK FOR HAZARDOUS MATERIALS INCIDENTS.

SECTION 15: REGULATORY INFORMATION

SECTION 15 - OTHER INFORMATION: CLEAN WATER ACT/OIL POLLUTION ACT: THIS
PRODUCT MAY BE CLASSIFIED AS AN OIL UNDER SECTION 311 OF THE CLEAN
WATER ACT, AND UNDER THE OIL POLLUTION ACT. DISCHARGES OR SPILLS INTO
OR LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE
NATIONAL RESPONSE CENTER (1-800-424-8802). HAZARDOUS CHEMICAL
REPORTING, EPA REGULATION 40 CFR 372 (SARA SECTIONS 311-312): NOT
APPLICABLE. ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE U.S. TSCA
INVENTORY.

SECTION 16: OTHER INFORMATION

LOCAL EXHAUST: USE LOCAL EXHAUST TO CAPTURE VAPOR, MISTS OR FUMES.