

AUTOKUT® OIL 250

MSDS No.
APPC 431Rev. Date
07/23/89CORP.
BOX 410107
KCMO 64141LYONCELL PETROCHEMICAL COMPANY
12000 LAWDALE AVENUE
P.O. BOX 2451
HOUSTON, TEXAS 77252-2451IMPORTANT: Read the MSDS before
handling and disposing of this product
and pass this information on to
employees, customers, and users of
this product.

I. General			
Trade Name AUTOKUT OIL 250		Telephone Numbers EMERGENCY 800/424-9300 CHEMTREC 800/245-4532 HOT LINE CUSTOMER SERVICE 800/626-4692 MSDS/INFO	
Other Names CUTTING OIL AUTOKUT OIL "A" OR AUTO-KUT OIL (FORMER NAMES) UMSRA CUTTING OIL (FORMER NAME)			
Chemical Family PETROLEUM HYDROCARBONS AND ADDITIVES	DOT Hazardous Materials Proper Shipping Name NOT A D O T. "HAZARDOUS MATERIAL"		
Generic Name METAL-WORKING OIL	DOT Hazard Class NOT REGULATED		
CAS No. SEE SECTION IV	Company ID No. 1670916709	UN/NA ID No. NOT REGULATED	
II. CAUTION Summary of Hazards			
MAY CAUSE MILD SKIN IRRITATION AND INFLAMMATION! AVOID SKIN CONTACT. WEAR PROTECTIVE CLOTHING/EQUIPMENT. (SEE SECTION V.) WASH THOROUGHLY AFTER HANDLING.			
III. Fire and Explosion			
Flash Point (Method) GT 310°F (D-92) SEE "FIRE & EXPLOSION HAZARDS"	Autoignition Temperature (Method) AP 600°F (EST.) BASED ON DISTILLATE COMPONENTS	Flammable Limit (% Vol. in Air) Lower N/AP Upper N/AP	
Fire and Explosion Hazards	SLIGHTLY COMBUSTIBLE. OSHA/NFPA CLASS-IIIB COMBUSTIBLE LIQUID. WHEN HEATED ABOVE ITS FLASH POINT, THIS MATERIAL WILL RELEASE FLAMMABLE VAPORS WHICH CAN BURN IN THE OPEN OR BE EXPLOSIVE IN CONFINED SPACES IF EXPOSED TO AN IGNITION SOURCE. MISTS OR SPRAYS MAY BE FLAMMABLE AT TEMPERATURES BELOW THE NORMAL FLASH POINT. KEEP AWAY FROM EXTREME HEAT AND OPEN FLAME.		
Extinguishing Media	DRY CHEMICAL, HALON, AND CARBON DIOXIDE. FOAM AND WATER FOG ARE EFFECTIVE BUT MAY CAUSE FROTHING.		
ighting Procedures	FOR FIRES INVOLVING THIS MATERIAL, DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT. THIS MAY INCLUDE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF COMBUSTION PRODUCTS AND OXYGEN DEFICIENCIES. IF FIREFIGHTERS CANNOT WORK, UPWIND TO THE FIRE, RESPIRATORY PROTECTIVE EQUIPMENT MUST BE WORN. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER. BURNING LIQUID WILL FLOAT ON WATER. NOTIFY APPROPRIATE AUTHORITIES IF LIQUID ENTERS SEWER/WATERWAYS.		

AUTOKUT OIL 250

MSDS No. APPC 434

IV. Health Hazards

Summary of Acute Hazards

MILD SKIN IRRITATION MAY OCCUR UPON SHORT-TERM EXPOSURE.

ROUTE OF EXPOSURE	SIGNS AND SYMPTOMS	Primary Route(s)
Inhalation	NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE.	<input type="checkbox"/>
Eye Contact	THIS PRODUCT IS EXPECTED TO BE NON-IRRITATING UPON SHORT-TERM EXPOSURE.	<input type="checkbox"/>
Skin Absorption	NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE.	<input type="checkbox"/>
Skin Irritation	MILD SKIN IRRITATION MAY RESULT FROM SHORT-TERM DIRECT CONTACT.	<input checked="" type="checkbox"/>
Ingestion	NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE.	<input type="checkbox"/>

Summary of Chronic Hazards and Special Health Effects

PROLONGED AND/OR REPEATED CONTACT WITH THIS MATERIAL MAY PRODUCE SKIN IRRITATION AND INFLAMMATION.

(SEE SECTION XI - "GENERAL COMMENTS".)

PERSONNEL WITH PRE-EXISTING SKIN DISORDERS SHOULD AVOID CONTACT WITH THIS PRODUCT.

V. Protective Equipment and Other Control Measures

Respiratory	NONE IS NEEDED UNDER ANTICIPATED USE CONDITIONS WITH ADEQUATE VENTILATION. IF EXPOSURE EXCEEDS THE OCCUPATIONAL EXPOSURE LIMITS, FOLLOW OSHA STANDARDS OR EQUIVALENT AND WEAR PROPER NIOSH/MSHA-APPROVED RESPIRATORY EQUIPMENT.
Eye	EYE PROTECTION SHOULD BE WORN IF MISTING OR SPLASHING CANNOT BE AVOIDED. HARD CONTACT LENSES SHOULD NOT BE WORN. SUITABLE EYE WASH WATER SHOULD BE AVAILABLE IN THE VICINITY OF ANY POTENTIAL EXPOSURE.
Skin	AVOID PROLONGED AND/OR REPEATED SKIN CONTACT. IF CONDITIONS OR FREQUENCY OF USE MAKE CONTACT LIKELY, WEAR CLEAN AND IMPERVIOUS PROTECTIVE CLOTHING SUCH AS GLOVES, BOOTS, COVERALLS, AND FACIAL PROTECTION.
Engineering Controls	USE ADEQUATE VENTILATION TO KEEP OIL MISTS OF THIS MATERIAL BELOW THE APPLICABLE GUIDELINE(S)/STANDARD(S). (SEE SECTION VI. - OCCUPATIONAL EXPOSURE LIMITS.)
Other Hygienic and Work Practices	WASH HANDS WITH PLENTY OF SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USE OF TOILET FACILITIES. DO NOT USE GASOLINE, SOLVENTS, KEROSENE, OR HARSH ABRASIVE SKIN CLEANERS FOR WASHING EXPOSED SKIN AREAS. TAKE A SHOWER AFTER WORK IF GENERAL CONTACT OCCURS. REMOVE OIL-SOAKED CLOTHING AND LAUNDRER BEFORE REUSE. LAUNDRER OR DISCARD CONTAMINATED LEATHER GLOVES AND SHOES.

VI. Occupational Exposure Limits

Substance	Source	Date	Type	Value/Units	Time
OIL MIST, MINERAL (SEE SECTION XI.)	OSHA	1989	PEL	5 MG/M3	8 HRS
	ACGIH	1989	TLV	5 MG/M3	8 HRS
			STEL	10 MG/M3	15 MIN

II. Emergency and First Aid

Inhalation	REMOVE PERSONNEL FROM CONTAMINATED AREA TO FRESH AIR. RESTORE AND/OR SUPPORT BREATHING AS REQUIRED.
Eye Contact	IMMEDIATELY FLUSH EYES WITH PLENTY OF CLEAN LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES. RETRACT EYELIDS OFTEN. OBTAIN EMERGENCY MEDICAL ATTENTION.
Skin Contact	REMOVE EX WIPING, THEN WASH SKIN THOROUGHLY WITH PLENTY OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND THOROUGHLY CLEAN BEFORE REUSE. DISCARD CONTAMINATED LEATHER GLOVES AND SHOES.
Ingestion	IF MORE THAN A HALF-CUP FULL OF THIS MATERIAL IS SWALLOWED, GIVE QUANTITIES OF WATER, INDUCE VOMITING, AND OBTAIN MEDICAL ATTENTION.
Emergency Medical Treatment Procedures	SEE ABOVE PROCEDURES.

VIII. Spill and Disposal

Precautions if Material is Spilled/Released

CONTAIN SPILL AND PREVENT IT FROM ENTERING ALL WATER BODIES, IF POSSIBLE. SAFELY STOP FLOW OF SPILL. EVACUATE NON-ESSENTIAL PERSONNEL FROM IMMEDIATE SPILL AREA DUE TO SLIPPING HAZARDS. IN URBAN AREA, CLEANUP AS SOON AS POSSIBLE. IN NATURAL ENVIRONMENTS, CLEANUP ON ADVICE FROM ECOLOGISTS. THIS MATERIAL WILL FLOAT ON WATER. ABSORBENT MATERIALS AND PADS CAN BE USED. COMPLY WITH ALL APPLICABLE LAWS. SPILLS MAY NEED TO BE REPORTED TO THE NATIONAL RESPONSE CENTER (800/424-8802). THE SPILLED MATERIAL AND ANY SOIL OR WATER WHICH IT HAS CONTACTED MAY BE HAZARDOUS TO ANIMAL/AQUATIC LIFE.

Waste Disposal Methods

MAXIMIZE PRODUCT RECOVERY FOR REUSE OR RECYCLING. CONDITIONS OF USE MAY CAUSE THIS MATERIAL TO BECOME A "HAZARDOUS WASTE" AS DEFINED BY STATE OR FEDERAL LAWS. USE APPROVED TREATMENT, TRANSPORTERS, AND DISPOSAL SITES IN COMPLIANCE WITH ALL APPLICABLE LAWS. IF SPILL IS INTRODUCED INTO A WASTE-WATER TREATMENT SYSTEM, CHEMICAL AND BIOLOGICAL OXYGEN DEMAND WILL LIKELY INCREASE. SPILL MATERIAL IS BIODEGRADABLE IF GRADUALLY EXPOSED TO MICRO-ORGANISMS. POTENTIAL TREATMENT AND DISPOSAL METHODS INCLUDE LAND FARMING, INCINERATION, AND LAND DISPOSAL, IF PERMITTED.

IX. Components (This may not be a complete list of components)

Component Name	CAS No.	Carcinogen##	Composition amount (WT.) (See Qualification on Page 4)
SEVERELY HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETRO.)	64742-52-5*	N/AP GT	70 PERCENT
SOLVENT-DEWAXED HEAVY PARAFFINIC DISTILLATE (PETROLEUM)	64742-65-0*	N/AP AP	1 PERCENT
SULFURIZED ANIMAL AND VEGETABLE OILS	68991-12-5*	N/AP LT	29 PERCENT

AUTOKUT OIL 250

MSDS No APPC 434

X. Physical and Chemical Data

Boiling Point GT 450° F	Viscosity Units, Temp (Method) AP 57 CST AT 100° F (C-445)	Dry Point N/A/P
Freezing Point N/A/P	Vapor Pressure (MM HG AT 70° F) C-1	Volatile Characteristics NEGLECTIBLE
Specific Gravity (H ₂ O = 1 at 39.2° F) AP 0.93	Vapor Sp Gr (Air = 1.0 at 60° - 80° F) GT 10	Solubility in Water NEGLECTIBLE
Hazardous Polymerization NOT EXPECTED TO OCCUR	Other Chemical Reactivity N/A/P	pH N/A/P
		Stability STABLE
Other Physical and Chemical Properties: SAYBOLT VISCOSITY = AP 265 SUS @ 100° F POUR POINT TEMPERATURE = LT 5° F (ASTM D-97)		
Appearance and Odor: DARK RED-COLORED LIQUID- SULFURIZED FAT ODDOR.		
Conditions to Avoid: EXTREME HEAT AND OPEN FLAME		
Materials to Avoid: STRONG ACIDS, ALKALIES, AND OXIDIZERS SUCH AS LIQUID CHLORINE AND OXYGEN.		
Hazardous Decomposition Products: BURNING OR EXCESSIVE HEATING MAY PRODUCE CARBON MONOXIDE AND OTHER HARMFUL GASES/VAPORS INCLUDING OXIDES AND/OR COMPOUNDS OF SULFUR, POSSIBLY HYDROGEN SULFIDE		

XI. Additional Precautions

Handling, Storage and Decontamination Procedures	<p>ADDING ANY SUPPLEMENTAL CHEMICAL TO THIS PRODUCT (DILUTED OR UNDILUTED) AT ITS POINT-OF-USE SHOULD BE DONE ONLY AFTER CAREFUL CONSIDERATION OF POSSIBLE OCCUPATIONAL HEALTH EFFECTS</p> <p>SINCE SPECIFIC EXPOSURE STANDARDS/CONTROL LIMITS HAVE NOT BEEN ESTABLISHED FOR THIS MATERIAL, THE EXPOSURE LIMITS SHOWN IN SECTION VI ARE SUGGESTED AS MINIMUM CONTROL GUIDELINES</p>
--	---

PROTECT AGAINST THERMAL BURNS TO SKIN AND EYES IF MATERIAL IS PROCESSED OR HANDLED HOT.

General Comments

IARC, ONE OF OSHA'S AUTHORITIES FOR ESTABLISHING CARCINOGENIC POTENTIAL, HAS SPECIFICALLY EVALUATED NAPHTHENIC OILS. IARC FOUND THAT MILDLY HYDROTREATED (HYDROFINISHED) OILS ARE CARCINOGENIC TO LABORATORY ANIMALS. IARC HAS NOT FOUND SEVERELY HYDROTREATED OILS TO BE CARCINOGENIC. THIS PRODUCT IS CLASSIFIED AS SEVERELY (NOT MILDLY) HYDROTREATED UNDER BOTH IARC AND OSHA DEFINITIONS. ANIMAL TESTING AND OTHER ANALYSES WILL CONTINUE AS PART OF OUR ON-GOING HEALTH HAZARD ASSESSMENT PROGRAM.

SOME OF THE INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE MIXTURE ITSELF.

- - - Note - - -	Qualifications	EQ = Equal LT = Less Than GT = Greater Than	AP = Approximately UK = Unknown TR = Trace	N/A = No Applicable Information Found N/A/P = Not Applicable N/A = No Data Available
------------------	----------------	---	--	--

Disclaimer of Liability

The information in this MSDS was obtained from sources which we believe are reliable. HOWEVER THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

This MSDS was prepared and is to be used only for this product. If the product name or other information may not be the same as the information on the label, the information on the label should be used.

AUTOKUT® OIL 250

MSDS No
APPC 434
Rev. Date
07/23/89

XII.

Regulatory Information

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III

SECTION 311/312 HAZARD CATEGORIES

IMMEDIATE (ACUTE) HEALTH HAZARD

DELAYED (CHRONIC) HEALTH HAZARD

SECTION 313

NO CHEMICALS IN THIS PRODUCT EXCEED THE DE MINIMUS REPORTING LEVEL ESTABLISHED BY SARA
TITLE III, SECTION 313 AND 40 CFR 372.

TOXIC SUBSTANCES CONTROL ACT (TSCA)

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA)

NO CHEMICALS IN THIS PRODUCT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF CERCLA.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1966 - PROPOSITION 65

BASED ON INFORMATION CURRENTLY AVAILABLE, THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY CHEMICALS
CURRENTLY LISTED AS CARCINOGENS OR REPRODUCTIVE TOXINS UNDER CALIFORNIA PROPOSITION 65 AT LEVELS
WHICH WOULD BE SUBJECT TO THE PROPOSITION. IF YOU REFORMULATE OR FURTHER PROCESS THIS PRODUCT,
YOU SHOULD FURTHER EVALUATE THIS PRODUCT BASED UPON SUCH REFORMULATION OR PROCESSING, AS WELL AS
UPON ITS FINAL COMPOSITION AND USE.

—

1

1

—