

AUTOKUT[®] OIL 250MSDS No.
APPC 431Rev. Date
07/23/89

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IMPORTANT: Read this 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 CHEMREC 800/245-4532 HOT LINE CUSTOMER SERVICE 800/626-4692 MSDS/INFO
Other Names	CUTTING OIL AUTOKUT OIL "AT" 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

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)	Autoignition Temperature (Method)	Flammable Limits (% Vol. in Air)
GT 310°F (D-92) SEE "FIRE & EXPLOSION HAZARDS"	AP 600°F (EST.) BASED ON DISTILLATE COMPONENTS	Lower N/A/F 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.	

Extinguishing 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.
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IV.**Health Hazards****Summary of Acute Hazards**

MILD SKIN IRRITATION MAY OCCUR UPON SHORT-TERM EXPOSURE.

ROUTE OF EXPOSURE**SIGNS AND SYMPTOMS****Primary Routes(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 EXCERS 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 LAUNDER BEFORE REUSE. LAUNDER 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 ACGIH	1989 1989	PEL TLV STEL	5 MG/M ₃ 5 MG/M ₃ 10 MG/M ₃	8 HRS 8 HRS 15 MIN

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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-WIRING; 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 or 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 (1-800/24-8602). 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 (WL)
SEVERELY HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETRO.)	64742-52-5*	N/AP	GT 70 PERCENT (See Qualification on Page 4)
SOLVENT-DEWAXED HEAVY PARAFFINIC DISTILLATE (PETROLEUM)	64742-66-0*	N/AP	AP 1 PERCENT
SULFURIZED ANIMAL AND VEGETABLE OILS	68991-18-5*	N/AP	LT 29 PERCENT

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Physical and Chemical Data

Boiling Point GT 450°F	Viscosity Units, Temp (Method) API 57 CST AT 100°F (D-445)	Dry Point N/A/P
Freezing Point N/A/P	Vapor Pressure (MM TSG AT 70°F) C 1	Volatile Characteristics NEGIGIBLE
Specific Gravity ($H_2O = 1$ at 39.2°F) AP 0.93	Vapor Sp Gr (Air = 1.0 at 60°-80°F) GT 1.0	Solubility in Water NEGIGIBLE pH N/A/P
Hazardous Polymerization NOT EXPECTED TO OCCUR	Other Chemical Reactivity N/A	Stability STABLE
Other Physical and Chemical Properties	SAYBOLT VISCOSITY = API 265 SUS = 100°F POUR POINT TEMPERATURE = 115°F (ASTM D-93)	
Appearance and Odor	DARK RED-COLORED LIQUID - SULFURIZED FAT ODOR.	
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	

Additional Precautions

Handling, Storage and Decontamination Procedures 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
UNDEFINED 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

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

General Commands

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.

EQ = Equal **AP = Approximately** **N/P = No Applicable Information Found**
LT = Less Than **UK = Unknown** **N/A = Not Applicable**
GT = Greater Than **TR = Trace** **N/DA = 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 of 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 information contained herein is used for other products, the information may not be applicable.

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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 46 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 1986 - 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.

