

This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this product. Please read the information on these sheets and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL, STATE and COMMUNITY RIGHT TO KNOW regulations. Also, make this information available to any employee who requests it.

If Niagara Lubricant Co., Inc. considers the formula of this product to be a trade secret, the exact chemical names of the ingredient(s) and the percentages in which they are combined will not appear in the body of this sheet. The exact composition is available upon request to physicians, industrial hygienists and other health professionals. For chemical emergencies, spills, leaks, fire or exposure call CHEMTREC (800) 424-9300.

May be used to comply with OSHA's Hazard Communication Standard 29CFR 1910.1200. Standard must be consulted for specific requirements.

ACUTE HEALTH	1	FIRE	1	REACTIVITY	0	HAZARD RATING Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4
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SECTION I CHEMICAL PRODUCT IDENTIFICATION

PRODUCT: FIVE STAR HYDRAULIC AW-32
 CHEMICAL NAME: PETROLEUM HYDROCARBON
 SYNONYMS: HYDRAULIC OIL
 NIAGARA CODE: 0422

SECTION II COMPOSITION/INFORMATION ON INGREDIENTS

NO.	COMPOSITION	CAS NO.	%
P	FIVE STAR HYDRAULIC JACK OIL		100
1	SOLVENT REFINED HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64741-89-5/64741-88-4	97-98
2	MINOR ADDITIVES*		<3
3			
4			
5			
6			
7			
8			

* ADDITIVE MANUFACTURER CONSIDERS THIS ADDITIVE PACKAGE TO BE CONFIDENTIAL BUSINESS INFORMATION AND IS BEING WITHHELD AS PERMITTED BY 29CFR 1910.1200.

SECTION IIB ACUTE TOXICITY DATA

NO.	ACUTE ORAL	ACUTE DERMAL	ACUTE INHALATION
	N.D.	N.D.	N.D.

SECTION III HEALTH INFORMATION

EFFECTS OF EXPOSURE									
OSHA PEL/TWA	N.E.	OSHA PEL/CEILING	N.E.		ACGIH TLV/TWA	N.E.	ACGIH TLV/STEL	N.E.	OTHER
IRRITATION		SKIN	X	SEVERE		MODERATE		MILD	X
		EYE	X	SEVERE		MODERATE		MILD	X
CORROSIVITY		SKIN	X						
		EYE	X			MAY CAUSE BLINDNESS			
						NOT CORROSIVE	X		

SECTION IV EMERGENCY FIRST AID

INGESTION									
INDUCE VOMITING		DO NOT INDUCE VOMITING	X		GIVE PLENTY OF WATER		GET MEDICAL ATTENTION	X	OTHER
DERMAL									
FLUSH WITH SOAP AND WATER	X	GET MEDICAL ATTENTION	X		CONTAMINATED CLOTHING - REMOVE AND LAUNDRY	X	CONTAMINATED SHOES DESTROY		OTHER
EYE CONTACT									
FLUSH WITH PLENTY OF WATER AT LEAST 15 MINUTES	X	GET MEDICAL ATTENTION	X						OTHER
INHALATION									
REMOVE TO FRESH AIR	X	IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION			GIVE OXYGEN		GET MEDICAL ATTENTION	X	OTHER

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE
 < - LESS THAN > - GREATER THAN N.E. - NOT ESTABLISHED N.R - NOT REVIEWED

SECTION V PHYSICAL DATA

BOILING POINT (deg f)	500+	MELTING POINT (deg f)	N.A.	POUR POINT (deg f)	-25	DROPPING POINT (deg f)	N.A.	VAPOR DENSITY (Air = 1)	N.A.
SPECIFIC GRAVITY (H2O=1)	.8681	SOLUBILITY IN WATER		NEGLIGIBLE	OTHER			VAPOR PRESSURE (mm hg)	N.A.
EVAPORATION RATE (N-BUTYL ACETATE=1)	N.A.	APPEARANCE & ODOR	PALE LIQUID, PETROLEUM ODOR						

SECTION VI FIRE AND EXPLOSION HAZARDS

FLASH POINT (deg f) (coc)	380+	FLAMMABLE LIMITS LOWER	N.D.	UPPER	N.D.	AUTO IGNITION TEMPERATURE/FIRE POINT UNDILUTED (deg f)	N.A.
EXTINGUISHING MEDIA							
WATER SPRAY		WATER FOG		C02	X	DRY CHEMICAL	X
EARTH AND SAND						ALCOHOL FOAM	
						FOAM	X
SPECIAL FIRE FIGHTING PROCEDURES							
DO NOT ENTER BUILDING		ALLOW FIRE TO BURN		WATER MAY CAUSE FROTHING		DO NOT USE WATER	

SECTION VII REACTIVITY DATA

STABILITY		HAZARDOUS POLYMERIZATION					
STABLE	X	UNSTABLE		WILL OCCUR		WILL NOT OCCUR	X
INCOMPATIBILITY – AVOID CONTACT WITH							
STRONG ACIDS		STRONG ALKALIS		STRONG OXIDIZERS	X	OTHER	
CONDITIONS TO AVOID							
HEAT	X	OPEN FLAMES	X	SPARKS		IGNITION SOURCES	

SECTION VIII EMPLOYEE PROTECTION

RESPIRATORY PROTECTION: IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS, 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: WEAR CHEMICAL RESISTANT GLOVES AND OTHER PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE SKIN CONTACT, WEAR SAFETY GOGGLES TO AVOID EYE CONTACT.

SECTION X ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES: USE JUDGEMENT WHEN CLEANING LARGE SPILLS, SHUT OFF SOURCE OF LEAK, DIKE AND CONTAIN. SOAK UP WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIALS, DISPOSE OF PROPERLY.

SECTION XI SPECIAL PRECAUTIONS

MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE. STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION, KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

SECTION XII TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION
 NOT REGULATED

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DATE PREPARED: 23-September-2003