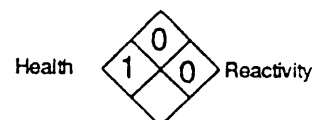



IDEAL INDUSTRIES, INC.

Flammability



HMIS Rating

MATERIAL SAFETY DATA SHEET

GENERAL INFORMATION

PRODUCT NAME OR NUMBER (as it appears on label) YELLOW 77® Wire Pulling Lubricant		CATALOG NUMBER All "31" Series
MANUFACTURER'S NAME Ideal Industries, Inc.		EMERGENCY TELEPHONE NO. (815) 895-5181
ADDRESS (Number, Street, City, State, Zip Code) Becker Place, Sycamore, IL 60178		
HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101) None		
CHEMICAL DESCRIPTION Water-Wax Emulsion	FORMULA Proprietary	

SECTION I - INGREDIENTS

CAS REGISTRY NO.	%W	CHEMICAL NAME(S)	Listed as a Carcinogen in NTP, IARC or OSHA 1910(z) (specify)
7732-18-5	<90	Water	No
Proprietary	<5	Paraffin Wax	No
8009-03-8	<3	Petrolatum	No
64742-53-6	<3	Napthenic Mineral Oil (See *A)	No
9005-08-7	<4	Polyethylene Glycol Ester	No
61791-44-4	<1	Ethoxylated Alkyl Amine	No
Proprietary	<0.1	Perfume	No
9004-32-4	<1	Cellulose Gum	No
4080-31-3	<1	Antimicrobial Agent	No
6358-31-2	<0.1	Yellow Pigment	No

SECTION II - PHYSICAL DATA

BOILING POINT 212 °F °C	SPECIFIC GRAVITY (H ₂ O=1) 0.98	PERCENT VOLATILE BY VOLUME (%) <90
SOLUBILITY IN WATER Moderate	pH = 7.0 - 8.5	PERCENT SOLID BY WEIGHT (%) ~20
APPEARANCE AND ODOR Yellow paste, slight perfume odor	IS MATERIAL: LIQUID GAS SOLID GEL PASTE POWDER	

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT None	method used C.O.C	FLAMMABLE LIMITS	LEL None	UEL None
EXTINGUISHING MEDIA Use extinguishing media suitable for surrounding materials.				
SPECIAL FIRE FIGHTING PROCEDURES Self-contained respiratory protection should be provided for fire fighters. Keep fire exposed containers cool with water.				
UNUSUAL FIRE AND EXPLOSION HAZARDS None				

* None of the chemical raw materials contained in this formulation are considered hazardous under the Federal Hazards Communication Standard 29 C.F.R. 1910.1200

*A: Oil is severely hydrotreated with a polymorphonuclear content at less than 0.1% and meets OSHA 29 C.F.R. 1910.1200.

SECTION IV - HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE - Conditions to Avoid	None normally expected. Upon prolonged contact, may cause temporary eye discomfort.
THRESHOLD LIMIT VALUE	N.E.
PRIMARY ROUTES OF ENTRY	Inhalation <input type="checkbox"/> Skin Contact <input checked="" type="checkbox"/> Other (specify)
EMERGENCY FIRST AID PROCEDURES	Wash with soap and water for 15 minutes.
SKIN CONTACT:	
EYE CONTACT:	Flush with water for 15 minutes. Inhalation- Move to fresh air.
INGESTION:	Induce vomiting. Consult physician or local poison control center.

SECTION V - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID	Avoid prolonged storage at temperatures exceeding 120 F.
	STABLE	X		
INCOMPATIBILITY (materials to avoid)		Avoid strong oxidizers.		
HAZARDOUS DECOMPOSITION PRODUCTS:		Excessive heat and burning may release oxides of carbon and nitrogen		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	None
	WILL NOT OCCUR	X		

SECTION VI - SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Wipe up, shovel or vacuum spilled material. Clean up spills immediately as they can be dangerously slippery.
WASTE DISPOSAL METHOD	Comply with Federal, state and local regulations for solid landfill.
CERCLA (Superfund) REPORTABLE QUANTITY (in lbs)	None Required
RCRA HAZARDOUS WASTE NO. (40CFR 261.33)	None Required
VOLATILE ORGANIC COMPOUND (VOC) (as packaged, minus water)	None
<input type="checkbox"/> Theoretical _____ lb/gal	N/A
<input type="checkbox"/> Analytical _____ lb/gal	N/A

SECTION VII - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)	None normally required.		
VENTILATION	LOCAL EXHAUST (Specify Rate)	None	
	MECHANICAL (General) (Specify Rate)	Recommended in closed areas.	
	SPECIAL	None	
	OTHER	None	
PROTECTIVE GLOVES (specify type)	Neoprene	EYE PROTECTION (specify type)	Safety glasses or splash goggles
OTHER PROTECTIVE EQUIPMENT	Eye fountain in work area is recommended.		

SECTION VIII - SPECIAL PRECAUTIONS


PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store at temperatures between 40 - 120 F.
OTHER PRECAUTIONS	Avoid freezing. Keep away from children, infants and pets.

SECTION IX - ADDITIONAL INFORMATION

If material is used in extreme heat (>120 F.), prolonged and repeated exposure could pose a risk of pulmonary disease. Exposure below mist TLV (5mg/m) appears to be without risk.

N/A = Not Applicable, N.E. = None Established

THIS MATERIAL SAFETY DATA SHEET PREPARED BY:

Name	Ronald Petersen	SIGNATURE 
Title	Senior Product Development Chemist	
Date	07/29/93	