

		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Health</td><td style="text-align: center;">1</td></tr> <tr><td>Fire</td><td style="text-align: center;">1</td></tr> <tr><td>Reactivity</td><td style="text-align: center;">1</td></tr> <tr><td> </td><td> </td></tr> </table>	Health	1	Fire	1	Reactivity	1			
Health	1										
Fire	1										
Reactivity	1										
MATERIAL SAFETY DATA SHEET											

 SECTION I

PRODUCT NAME OR NUMBER Thread-Cutting Oil / Clear- TCO 16	
MANUFACTURER'S NAME Relton Corporation	EMERGENCY TELEPHONE NO Chemtrec - (800) 424-9300
ADDRESS (Number, Street, City, State, and Zip Code) 317 Rolyn Place, Arcadia, CA 91006	Non-Emergency Ph. No. (213) 681-2551
HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME (49 CFR 172.101) This material has no known hazards under applicable law.	HAZARD CLASS (49 CFR 172.101) NA
CHEMICAL FAMILY Mixture: Predominantly pale oil with bland additives	FORMULA NA

 SECTION II - INGREDIENTS

	TLV	PEL	STEL	C.A.S. NO.	% by wght
	NE*	NE*	NE*		
Pale oil # 100				64741-96	> 85
Metalworking-fluid additive				Trade Secret	< 8
Metalworking-fluid additive				Trade Secret	< 5
	* For the mixture				

 SECTION III - PHYSICAL DATA

BOILING POINT (X°F) (C°)	>350° F	SPECIFIC GRAVITY (H ₂ O=1) @ 25° C	0.9	Freezing Point	N F
VAPOR PRESSURE (mm Hg)	NA	PERCENT VOLATILE BY VOLUME (%)	NA	VOC	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (WATER=1)			
		Much slower than water			
SOLUBILITY IN WATER: Insoluble		pH=	NA		
APPEARANCE AND ODOR	Clear yellow of low odor.			IS MATERIAL GAS	LIQUID PASTE
					SOLID POWDER

 SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used) > 310° F (COC)	FLAMMABLE LIMITS Not determined	LEL	UEL
EXTINGUISHING MEDIA C0 ₂ , dry chemical, foam, water as a mist only			
SPECIAL FIRE FIGHTING PROCEDURES Self-contained breathing apparatus with full facepiece in a pressure-demand mode; full-body protective clothing. Treat as an oil fire.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Combustion can produce acid gases (sulfur dioxide and hydrogen sulfide.) Cool fire-exposed containers with water spray to prevent rupture.			

 SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE Eyes and skin: may cause mild irritation. Inhalation: may cause mild upper respiratory irritation. Ingestion: possible nausea.	THRESHOLD LIMIT VALUE (OF MIXTURE) NE
EMERGENCY AND FIRST AID PROCEDURES Eyes: flush for 15 min. with water. Skin: wash with soap and water. Inhalation: remove to fresh air. Ingestion: do not induce vomiting; give copious water to conscious person. Call Doctor.	

NE=not established NF=not found NA=not applicable

Thread-Cutting Oil /Clear - TCO 16

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SECTION VI- REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID: Unnecessary contact with water - May emulsify Elevated temperatures promote decomposition.
	STABLE	X	
INCOMPATIBILITY (materials to avoid) Water, unless being used for residue cleanup.			
HAZARDOUS DECOMPOSITION PRODUCTS. Combustion can produce carbon monoxide and dioxide, incompletely burned hydrocarbon, oxides of sulfur and nitrogen, aldehydes and hydrogen sulfide gas.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID: NA
	WILL NOT OCCUR	X	

SECTION VII- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED. Clean up promptly by vacuum or absorbent material and place in chemical waste container. For large spills, dike for later disposal.
WASTE DISPOSAL METHOD Transport in DOT-approved container to EPA-approved treatment, storage, and disposal facility. Land disposal is governed by Federal law (40CFR 26E)

SECTION VIII- SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type) Normally not needed. For oil-type mist, use NIOSH listed respirator.		
VENTILATION	LOCAL EXHAUST (Specify Rate) NE	SPECIAL Not required normally
Local-mechanical	MECHANICAL (General) (Specify Rate) NE	OTHER
PROTECTIVE GLOVES: Nitrile rubber or cotton.	EYE PROTECTION Use safety goggles or face shield.	
OTHER PROTECTIVE EQUIPMENT. Appropriate clothing to avoid skin contact		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Keep containers closed when not in use. Avoid contact with skin and eyes. Avoid breathing mists.
OTHER PRECAUTIONS Container handling: do not weld empty drums unless thoroughly cleaned.

ADDITIONAL INFORMATION

DOT: No hazardous substance
 No hazard class
 Freight classification: Petroleum oil, lubricating, NOI NA (North America) 1270

SARA: Not considered to be subject to Title III

TSCA: All components required to be listed on the inventory are listed.

IARC-NTP-OSHA: No component is listed as a carcinogen.

Ozone-Depleting Substance: No 1,1,1-Trichloroethane (methyl chloroform) or other ozone-depleting substance is present.

California Prop. 65 Material: None.

Note: Although no exposure limits are established, observe ACGIH-OSHA TWA for oil mists:
 5mg/meter³ (long term) 10mg/meter³ (short term)

Prepared: 6-21-94 Updated: 10-24-94 Updated: 03/10/03
 Updated: 10-21-94 Updated: 11-10-00 Updated: 07/22/05
 06/01/10
 01/10/11



317 ROLYN PLACE ARCADIA CALIFORNIA 91006
 Phone (213) 681-2551

Robert E. Pratt

by Dr. Robert Pratt,
 Consulting Chemist