

NFPA  Health Fire Reactivity	 MATERIAL SAFETY DATA SHEET	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">HMIS</th> </tr> <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;">0</td> </tr> </table>	HMIS		Health	1	Fire	1	Reactivity	0
HMIS										
Health	1									
Fire	1									
Reactivity	0									

SECTION I

PRODUCT NAME OR NUMBER	REL COOL™#3 Water-Soluble Oil Concentrate	
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 91007-2838	Non-Emergency Ph. No. (800) 423-1505	
HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME (49 CFR 172.101) NA Water-Based Metal-Cutting Fluid	HAZARD CLASS (49 CFR 172.101) NA	
CHEMICAL FAMILY Emulsion, non-hazardous	Formula	Mixture

SECTION II - INGREDIENTS

SECTION II - INGREDIENTS	TLV	PEL	STEL	C.A.S. NO.	%
2, 4-Pentanediol, 2-methyl	NA	NE	NE	107-41-5	0 - 1
Ethanol, 2-Amino	NA	NE	NE	141-43-5	0 - 1
Distillates (petroleum), hydrotreated Heavy naphthenic	NA	NE	NE	64742-52-5	5 - 10
Distillates (petroleum), hydrotreated Light naphthenic	NA	NE	NE	64742-53-6	10 - 15
Distillates (petroleum), hydrotreated Heavy naphthenic	NA	NE	NE	64742-54-7	30 - 35

SECTION III - PHYSICAL DATA

BOILING POINT (X°F) (C°)	: NA NA	SPECIFIC GRAVITY (H ₂ O=1.00) @ 60° C	: 0.94	VOC	:000.00
VAPOR PRESSURE (mm Hg)	: NA	PERCENT VOLATILE BY VOLUME (%)	: 3.5		
VAPOR DENSITY (AIR=1)	: NA	EVAPORATION RATE (BUTYL ACETATE=1)	: NA		
SOLUBILITY IN WATER	: Soluble	pH as is: NA pH (DILUTE@5%)	: 9.2		
APPEARANCE AND ODOR	Clear dark amber liquid, mild fatty odor		MATERIAL IS	LIQ UID	SOLID-
			GAS	PASTE	POWDER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used):	300°F 149°C (COC)	FLAMMABLE LIMITS	LFL	UFL
			NA	NA
EXTINGUISHING MEDIA: Water fog, dry chemical, foam or CO ₂				
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus when fire fighting in a confined space . Cool fire-exposed containers with waterspray to prevent rupture.				
UNUSUAL FIRE AND EXPLOSION HAZARDS: None				
CONTAINER HANDLING: DO NOT CUT OR WELD EMPTY DRUMS UNLESS THOROUGHLY CLEANED.				

SECTION V - REACTIVITY DATA

STABILITY:	UNSTABLE		CONDITIONS TO AVOID:	HAZARDOUS	MAY OCCUR
	STABLE	X	None	POLYMERIZATION:	WILL NOT OCCUR
INCOMPATIBILITY (materials to avoid): Strong oxidizing agents					
HAZARDOUS DECOMPOSITION: Oxides of C, N, and Sulfur and Phosphorus					

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

SECTION VI - HEALTH HAZARD SUMMARY

ROUTES OF EXPOSURE AND EFFECTS OF OVEREXPOSURE

EYES: Concentrate may cause eye irritation.

SKIN ABSORPTION: No acute effects expected.

INHALATION: Mists may cause respiratory irritation.

CHRONIC EFFECTS:

A review of the literature does not show obvious long-term hazard.

SKIN CONTACT: Concentrate may cause skin irritation.

INGESTION: Oral LD50 not established. Do not ingest.

THRESHOLD LIMIT VALUE: Not established for this product

IARC - NTP - OSHA: Neither the mixture nor any component is listed as a carcinogen or suspected carcinogen

EMERGENCY AND FIRST AID PROCEDURES

EYES: In case of contact, immediately flush eyes with plenty of water. Get medical attention if irritation persists.

INHALATION: If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

SKIN: Wash skin with soap and water. If irritation occurs, get medical attention. Wash clothing before reuse.

INGESTION: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

SECTION VII - CONTROL MEASURES

RESPIRATORY PROTECTION:

Good industrial hygiene practices recommend that engineering controls be used to reduce environmental concentrations to the Threshold Limit Value (TLV) or Permissible Exposure Limit (PEL). If any associated TLV or PEL is exceeded, provide NIOSH-approved respiratory protection.

GLOVES:

Impervious gloves such as rubber should be used when handling this product.

EYE PROTECTION:

Safety glasses with side shield or chemical goggles.

OTHER: Eyewash facility. Appropriate clothing to avoid skin contact.

SECTION VIII - PRECAUTIONS

CONTAINMENT PROCEDURES:

Recover free liquid. Keep product out of streams and waterways by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas.

WASTE DISPOSAL PROCEDURES:

Dispose of in accordance with local, state and federal regulations. Disposal of this material to the land may be banned by Federal Law (40 CFR 268).

STORAGE AND HANDLING PROCEDURES:

DO NOT ADD NITRITES TO THIS FLUID.

Avoid contact with skin and eyes. Avoid breathing mists. Do not take internally. Keep container closed when not in use. Bring product to room temperature before use.

RCRA HAZARDOUS WASTE DESIGNATION:

This product does not fall under current EPA/RCRA definitions of hazardous waste.

CERCLA REPORTABLE QUANTITY:

This product does not contain any CERCLA regulated materials.

SECTION IX - OTHER HAZARD INFORMATION

Alkanolamine

In all metalworking fluids containing amines, there is a potential for forming nitrosamines which are animal carcinogens. Therefore, no nitrites or related nitrosating agents should be added to such compositions.

SECTION X - ADDITIONAL REGULATORY INFORMATION

OCCUPATIONAL SAFETY and HEALTH ADMINISTRATION (OSHA):

29 CFR 1910.1200 Hazardous Chemical: no

SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA):

Section 302, Extremely Hazardous Substance: no / Section 311/312, Hazardous Classes:

Immediate: yes / Delayed: no / Fire: no / Sudden Release: no / Reactive: no / Section 313, Toxic Chemical: no

TOXIC SUBSTANCES CONTROL ACT (TSCA):

This product is a mixture and is NOT Listed in the TSCA Inventory. The individual Ingredients in the product are listed in the TSCA Inventory.

DEPARTMENT OF TRANSPORTATION (DOT):

PROPER SHIPPING NAME : Water-Based Metal-Cutting Fluid

HAZARD CLASS (49 CFR 172.101): NA HAZARD ID NUMBER: NA

Cal. Prop. 65 Material: None Ozone-Depleting Substance: None



Robert E. Pratt

Prepared: 05/01/99 Updated: 03/10/03

by 07/22/05

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