



CLEAR CUT 304

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard (29CFR 1910.1200)

Manufactured For: RAMCO SPECIALTY PRODUCTS, Inc. ♦ 5956 State Road ♦ Bakersfield, CA 93308-3022
 Phone: (800) 334-7071 ♦ Fax: (714) 375-1225 ♦ Website: www.ramcospec.com

SECTION I – PRODUCT IDENTIFICATION

PRODUCT NAME	CLEAR CUT 304	PROPER SHIPPING NAME	OIL N.O.S.
PRODUCT NUMBER	1042	DATE PREPARED	03/01/2004
PRODUCT DESCRIPTION	Stainless Cutting Fluid	PREPARED BY	WARREN SQUYRES
Information Phone	(800) 334-7071	24-Hour Emergency Phone No.	(800) 255-3924

NFPA – HMIS CODES

Health	1	Flammability	1	Corrosive	0	Reactivity	0	Personal Protection	B
--------	----------	--------------	----------	-----------	----------	------------	----------	---------------------	----------

SECTION II – MATERIAL IDENTIFICATION AND INFORMATION

Description	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TWA (ppm)	CARCINOGEN	Wt %
Distillates, Hydrotreated Heavy Paraffinic	64742-54-7	NO	5mg/m3 as a mist	5mg/m3 as a mist	NO	
Solvent-Refined Heavy Napthenic Distillate	64741-96-4	NO	5mg/m3 as a mist	5mg/m3 as a mist	NO	
Chlorinated Paraffins	61788-76-9	NO	N/E	N/E	NO	

Please note that the chemical identity of some or all of the above hazardous ingredients is confidential information and may be withheld as permitted by 29CFR 1910.1200 and various State Right to Know Laws.

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Initial Boiling Point, °F	N/A	Evaporation Rate (n-Bu-Ac=1.0)	N/A
Vapor Pressure for Product	N/A	Melting Point, °F	N/A
Vapor Density for Product (Air = 1.0)	N/A	Molecular Weight, Avg.	N/A
Specific Gravity (H2O=1 @ 75°F)	0.87	Viscosity, Typical (cp)	N/A
VOC (Grams/Liter @ 25°C)	N/D	Appearance and Color	Clear Amber Liquid
Volatiles, % by Volume @ 100°C	N/D	Odor	Mild Hydrocarbon
Total VOC %	N/A	Water Solubility (Wt %)	Insoluble

The above data are appropriate or typical values and should not be used for precise design purposes.

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (ASTM D92) C.O.C.	> 300°F
Auto Ignition Temperatures	N/D
Flammability Limits in Air	
Lower Explosive Limit Estimated	N/D
Upper Explosive Limit Estimated	N/D
Extinguishing Media	Use Water Fog, Foam, Dry Chemical or CO2.
Unusual Fire and Explosion Hazards	None Known
Special Fire Fighting Procedures	Clear fire area of unprotected personnel. Do not enter a confined space without a helmet, face shield, bunker coat, gloves, rubber boots, and a positive NIOSH Approved self-contained breathing apparatus.



CLEAR CUT 304

SECTION V – HEALTH HAZARD DATA AND EMERGENCY FIRST AID PROCEDURES

ENTRY ROUTES	ADVERSE/CHRONIC EFFECTS	FIRST AID PROCEDURES
EYES	Prolonged or repeated contact may cause eye irritation.	Immediately flush eyes with large amounts of water for at least 15 minutes while lifting upper and lower lids open. Seek medical attention.
INGESTION	None Known.	Rinse mouth immediately. Never give anything to an unconscious person. DO NOT INDUCE VOMITING unless advised by a physician. Seek immediate medical attention.
INHALATION	Inhalation of mists or vapors may cause respiratory irritation.	If a person breathes in large amounts of this product, move the exposed person to fresh air at once. If breathing becomes difficult, administer oxygen and seek immediate medical attention.
SKIN	Prolonged or repeated contact may cause skin irritation. Possible red and/or itching skin due to overexposure.	Remove contaminated clothing immediately. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention. Launder or dry-clean clothing before reuse.
CHRONIC HEALTH HAZARDS	Not determined for the product as a whole.	

SECTION VI – REACTIVITY DATA

STABILITY	Stable – Keep away from all sources of ignition. Do not store next to or with incompatible materials.
HAZARDOUS POLYMERIZATION	Will not occur – No conditions known.
INCOMPATIBILITY	Strong Oxidizing Agents and acids.
HAZARDOUS DECOMPOSITION	May cause dense smoke, oxides of carbon, nitrogen, sulfur and chlorides.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED – Persons not wearing proper personal protective equipment as stated in Section VIII of this MSDS should be excluded from area of spill. Extinguish all flames in the vicinity. Dike spill and soak up with inert absorbent material. Place in appropriate containers and affix proper labels. Store containers closed, away from extreme temperatures and open flames.	
WASTE DISPOSAL	Disposal of in compliance with Federal, State, and Local laws. The disposal method and manner practices should be acceptable to good waste management practices and follow applicable codes and regulations.
HANDLING & STORAGE	Store containers closed, away from extreme temperatures and open flames. Use good personal hygiene. Avoid breathing mists and vapors. Wear all appropriate personal protective equipment at all times.
OTHER PRECAUTIONS	KEEP OUT OF REACH OF CHILDREN. Read and follow label directions. For Industrial/Institutional use only.
"EMPTY" CONTAINERS	"EMPTY" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION VIII – CONTROL MEASURES

RESPIRATORY PROTECTION	If ventilation equipment is not sufficient to keep airborne concentrations below exposure limits, use a NIOSH Approved respirator.
VENTILATION	Local exhaust is recommended.
PROTECTIVE GLOVES	Use rubber or other impervious gloves
EYE PROTECTION	Use safety glasses with side shields or splash goggles.
OTHER PROTECTIVE CLOTHING/EQUIPMENT	An eyewash fountain and safety shower should be located nearby work area at all times for emergency use.
WORK HYGIENIC PRACTICES	Employees must practice good personal hygiene; washing exposed areas of skin several times daily and before eating, drinking or smoking. Launder contaminated clothing before reuse.

SECTION IX – TRANSPORTATION DATA

PROPER SHIPPING NAME	OIL N.O.S.
DOT ID NUMBER	N/A
DOT HAZARD CLASS	NOT REGULATED

The information and recommendations set forth herein are presented in good faith and believed to be correct and reliable. RAMCO SPECIALTY PRODUCTS, Inc. makes no representation as to the completeness or accuracy thereof and supplies information upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use.