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MATERIAL SAFETY DATA SHEETS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: HYDRAULIC FLUID

ISSUE DATE: SEPTEMBER 2009

THIS GENERIC MSDS REPRESENTS THE FOLLOWING RALLYE LUBRICANTS PRODUCTS:

RALLYE® WATER/GLYCOL FIRE RESISTANT FLUID

CAS NUMBER:

MIXTURE

SYNONYMS / GENERAL NAMES:

HYDRAULIC FLUID

24 HOUR EMERGENCY TELEPHONE:

(CHEMTREC) 1-800-424-9300

TECHNICAL INFORMATION:

1-800-368-1264

2. COMPOSITION / INFORMATION ON INGREDIENTS / HAZARDOUS INGREDIENTS

COMPONENTS	CAS NO.	%	HAZARD DATA
1) WATER	7732-18-5	>40	
2) DIETHYLENE GLYCOL	111-46-6	>40	
3) PROPRIETARY BLEND	MIXTURE	<22	
4) MORPHOLINE	110-91-8	<1	DERMAL TWA 20PPM

HAZARDOUS INGREDIENTS:

YES

NAME:

NJ/PA/MA RTK

PROPRIETARY TSRN-489909-5036-EC

EX

MORPHOLINE CAS-110-91-8

YES

DIETHYLENE GLYCOL CAS-111-46-6

YES

WATER CAS-7732-18-5

NO

HAZARDOUS PER 29 CFR 1916.1200:

N/D

3. HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY:	SKIN CONTACT
TARGET ORGANS:	SKIN
IRRITANCY:	THIS MATERIAL CAN CAUSE MILD SKIN IRRITATION FROM PROLONGED OR REPEATED SKIN CONTACT.
REPRODUCTIVE EFFECTS:	CHRONIC OVER EXPOSURES VIA INGESTION HAS BEEN KNOWN TO CAUSE REPRODUCTIVE TOXICITY IN EXPERIMENTAL ANIMALS AT VERY HIGH GAVAGE DOSES.
CANCER INFORMATION:	N/A

4. FIRST AID MEASURES

EYES:	FLUSH EYES WITH COOL, CLEAN, LOW-PRESSURE WATER. SEEK MEDICAL ATTENTION IF EXCESSIVE TEARING, REDNESS, OR PAIN PERSISTS.
DERMAL:	WASH EXPOSED SKIN WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. THOROUGHLY CLEAN CONTAMINATED CLOTHING BEFORE REUSE.
INGESTION:	DILUTE WITH WATER AND IMMEDIATELY INDUCE VOMITING. NEVER GIVE FLUIDS IF VICTIM IS UNCONSCIOUS OR HAVING CONVULSIONS. SEEK IMMEDIATE MEDICAL ATTENTION.
INHALATION:	MOVE VICTIM TO FRESH AIR. IF VICTIM IS NOT BREATHING, IMMEDIATELY BEGIN RESCUE BREATHING. IF NECESSARY SEEK MEDICAL ATTENTION
INJECTION:	N/E

5. FIRE FIGHTING MEASURES

FLASH POINT, °C (°F): N/A
 FLAMMABLE LIMITS (% BY VOLUME): LOWER: ND UPPER: ND
 EXTINGUISHING MEDIA: USE FOG, FOAM OR DRY CHEMICAL
 SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APARATUS
 AUTOIGNITION TEMPERATURE: 765°C
 EXPLOSION DATA: N/A
 NFPA RATING: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: SPILLS SHOULD BE CONTAINED, SOLIDIFIED, AND PLACED IN SUITABLE CONTAINERS FOR DISPOSAL IN A LICENSED FACILITY. THIS MATERIAL ISNOT REGULATED BY RCRA OR CERCLA. WEAR APPROPRIATE RESPERATORY PROTECTION AND PROTECTIVE CLOTHING – PROVIDE ADEQUATE VENTILATION. COMPLY WITH ALL LAWS AND REGULATIONS.

7. HANDLING AND STORAGE

HANDLING PROCEDURES: KEEP CONTAINERS CLOSED
 STORAGE PROCEDURES: KEEP CONTAINERS CLOSED

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF MISTS AND/OR VAPORS BELOW THE RECOMMENDED EXPOSURE LIMITS. AN EYE WASH STATION AND SAFETY SHOWER SHOULD BE LOCATED NEAR THE WORK-STATION.
GLOVES PROTECTION:	USE GLOVES CONSTRUCTED OF CHEMICAL RESISTANT MATERIALS SUCH AS NEOPRENE OR HEAVY NITRILE RUBBER IF FREQUENT OR PROLONGED CONTACT IS EXPECTED.
EYE PROTECTION:	CHEMICAL GOGGLES; WEAR A FACE SHIELD IF A SPLASHING HASZARD EXISTS.
RESPIRATORY PROTECTION:	VAPORIZATION OR MISTING IS NOT EXPECTED AT AMBIENT TEMPERATURES. THEREFORE, THE NEED FOR RESPIRATORY PROTECTION IS NOT ANTICIPATED UNDER NORMAL USE CONDITIONS AND WITH ADEQUATE VENTILATION. USE LOCAL EXHAUST TO CONTROL VAPORS/MIST
CLOTHING RECOMMENDATION:	USE CLEAN AND IMPERVIOUS PROTECTIVE CLOTHING (e.g., NEOPRENE OR TYVEK) IF SPLASHING OR SPRAYING CONDITIONS ARE PRESENT. PROTECTIVE CLOTHING MAY INCLUDE LONG-SLEEVE OUTER GARMENT, APRON, OR LAB COAT. IF SIGNIFICANT CONTACT OCCURS, REMOVE OIL-CONTAMINATED CLOTHING AS SOON AS POSSIBLE AND PROMPTLY SHOWER. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE OR DISCARD. WEAR HEAT PROTECTIVE BOOTS AND PROTECTIVE CLOTHING WHEN HNDLING MATERIAL AT ELEVATED TEMPERATURES.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	CLEAR RED FLUID
ODOR:	GLYCOL
pH:	9.5
VAPOR PRESSURE, mm Hg (25 °C):	N/D
VAPOR DENSITY:	NOT AVAILABLE
MELTING POINT:	NOT AVAILABLE.
BOILING POINT, 760 mm Hg, °C:	215
SOLUBILITY IN WATER:	COMPLETE
SPECIFIC GRAVITY:	NOT AVAILABLE
EVAPORATION RATE:	N/A
VISCOSITY 40°C (100°C)	NOT AVAILABLE
MOLECULAR WEIGHT:	N/A
PERCENT VOLATILE:	NEGLIGIBLE VOLATILITY

10. STABILITY AND REACTIVITY

STABILITY:	STABLE
INCOMPATIBILITY:	N/D
POLYMERIZATION:	DOES NOT OCCUR
HAZARDOUS DECOMPOSITION:	N/D

11. TOXICOLOGICAL INFORMATION

EYE IRRITATION:	THIS PRODUCT CAN CAUSE MILD, TRANSIENT, EYE IRRITATION WITH SHORT-TERM CONTACT WITH LIQUID OR SPRAYS.
DERMAL IRRITATION:	THIS MATERIAL CAN CAUSE MILD SKIN IRRITATION FROM PROLONGED OR REPEATED SKIN CONTACT.
INHALATION TOXICITY:	AT ELEVATED TEMPERATURES, MIST OR VAPORS MAY IRRITATE THE MUCOUS MEMBRANES OF THE NOSE, THE THROAT, BRONCHI, AND LUNGS.
INGESTION IRRITATION:	INGESTION OF LARGE DOSES MAY PRODUCE NAUSEA, VOMITING, GASTROINTESTINAL CRAMPING, CNS EFFECTS, DIARRHEA, LIVER NECROSIS, RENAL TUBULAR DEGENERATION AND EVEN DEATH.
INJECTION SENSITATION:	N/D
CHRONIC EXPOSURE :	NASAL LESIONS, TEARING, RESPIRATORY IRRITATION

12. HEALTH INFORMATION

HMIS CODE: HEALTH: 2 FIRE: 1 REACTIVITY: 0

No	HIGHLY TOXIC	No	SENSITIZER
No	TOXIC	YES	REPRODUCTIVE EFFECTS W/HIGH DOSAGE
No	CORROSIVE	No	MUTAGEN
YES	IRRITANT		

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Incinerate in a licensed facility. Do not discharge into waterways or sewer systems. It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Determine compliance status with all applicable requirements prior to disposal.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)**

PROPER SHIPPING NAME:	N/A
HAZARD CLASS:	NOT A DOT CONTROLLED MATERIAL (UNITED STATES).
HAZARD IDENTIFICATION NUMBER:	N/A
DOT PLACARD:	N/A
COMPATIBILITY CATEGORY:	N/A

15. REGULATORY INFORMATION**SARA SECTION 313 - TOXIC CHEMICALS:**

This product does not contain toxic chemicals under SARA Section 313 and 40 CFR Part 372.

SARA SECTION 311 - HAZARD CATEGORIES:

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

NO	IMMEDIATE (ACUTE) HEALTH HAZARD	NO	SUDDEN RELEASE OF PRESSURE HAZARD
NO	DELAYED (CHRONIC) HEALTH HAZARD	NO	REACTIVE HAZARD
NO	FIRE HAZARD		

SARA SECTION 302 - EXTREMELY HAZARDOUS WASTE:

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

CLEAN WATER ACT (CWA):

Under the CWA, discharges to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

CERCLA HAZARDOUS SUBSTANCES:

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance.

U.S. TSCA INVENTORY

All components of this material are on the U.S. TSCA Inventory or are not required to be listed on the U.S. TSCA Inventory

16. OTHER INFORMATION

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. RALLYE LUBRICANTS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.

NFPA HAZARD RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4
HMIS HEALTH RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4

NA - NOT APPLICABLE

ND - NO DATA

NE - NOT ESTABLISHED