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## MATERIAL SAFETY DATA SHEETS

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**GENERIC NAME:** GEAR OIL

**ISSUE DATE:** SEPTEMBER 2009

**THIS GENERIC MSDS REPRESENTS THE FOLLOWING RALLYE LUBRICANTS PRODUCTS:**  
RALLYE® INDUSTRIAL GEAR OIL – SYNTHETIC BASE 220, 320, 460, 680, 1000, 3200, 6800

**CAS NUMBER:** MIXTURE  
**SYNONYMS / GENERAL NAMES:** GEAR OIL/LUBRICATING OIL  
**24 HOUR EMERGENCY TELEPHONE:** (CHEMTREC) 1-800-424-9300  
**TECHNICAL INFORMATION:** 813-248-1988

### 2. COMPOSITION / INFORMATION ON INGREDIENTS / HAZARDOUS INGREDIENTS

COMPONENTS	CAS NO.	%	HAZARD DATA
HIGHLY REFINED SYNTHETIC BASE OIL	64742-54-7	>95	ORAL (LD50): >5000 mg/kg (rat)
PETROLEUM ADDITIVES	MIXTURE	<5%	DERMAL (LD50): >2000 mg/kg (rabbit)

**HAZARDOUS INGREDIENTS:** NONE

**HAZARDOUS PER 29 CFR 1916.1200:** NO

### 3. HAZARDOUS IDENTIFICATION

<b>ROUTES OF ENTRY:</b>	MOUTH AND SKIN CONTACT
<b>TARGET ORGANS:</b>	NONE
<b>IRRITANCY:</b>	IN ENCLOSED SPACES OR WHEN HOT, VAPORS MAY REACH CONCENTRATIONS SUFFICIENT TO CAUSE DROWSINESS, DIZZINESS, HEADACHE, NAUSEA, OR LUNG IRRITATION. ELEVATED MIST CONCENTRATIONS MAY CAUSE CHEMICAL PNEUMONITIS.
<b>REPRODUCTIVE EFFECTS:</b>	N/A
<b>CANCER INFORMATION:</b>	THIS PRODUCT IS NOT BELIEVED TO CONTAIN COMPONENTS THAT ARE CONSIDERED CARCINOGENIC BY OSHA, IARC OR NTP.

### 4. FIRST AID MEASURES

<b>EYES:</b>	CHECK FOR AND REMOVE CONTACT LENSES. FLUSH EYES WITH COOL, CLEAN, LOW-PRESSURE WATER WHILE OCCASIONALLY LIFTING AND LOWERING EYELIDS. SEEK MEDICAL ATTENTION IF EXCESSIVE TEARING, REDNESS, OR PAIN PERSISTS.
<b>DERMAL:</b>	REMOVE CONTAMINATED SHOES AND CLOTHING. WIPE OFF EXCESS MATERIAL. WASH EXPOSED SKIN WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF TISSUE APPEARS DAMAGED OR IF IRRITATION PERSISTS. THOROUGHLY CLEAN CONTAMINATED CLOTHING BEFORE REUSE. DISCARD CONTAMINATED LEATHER GOODS.
<b>INGESTION:</b>	DO NOT INDUCE VOMITING UNLESS DIRECTED TO BY A PHYSICIAN. DO NOT GIVE ANYTHING TO DRINK UNLESS DIRECTED TO BY A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO A PERSON WHO IS NOT FULLY CONSCIOUS. SEEK MEDICAL ATTENTION IMMEDIATELY.
<b>INHALATION:</b>	MOVE VICTIM TO FRESH AIR. PROVIDE RESPIRATORY SUPPORT IF NECESSARY. SEEK MEDICAL AID.
<b>INJECTION:</b>	INJECTION OF PRESSURIZED HYDROCARBONS CAN CAUSE SEVERE, PERMANENT TISSUE DAMAGE. INITIAL SYMPTOMS MAY BE MINOR. INJECTION OF PETROLEUM HYDROCARBONS REQUIRES IMMEDIATE MEDICAL ATTENTION.

**5. FIRE FIGHTING MEASURES**

FLASH POINT °C( °F): 238-322°C ( 460-630°F)  
 FLAMMABLE LIMITS (% BY VOLUME): LOWER: NA UPPER: NA  
 EXTINGUISHING MEDIA: USE DRY CHEMICAL, FOAM, CARBON DIOXIDE OR WATER FOG.  
 SPECIAL FIRE FIGHTING PROCEDURES: N/A  
 AUTOIGNITION TEMPERATURE: N/A  
 EXPLOSION DATA: N/A  
 NFPA RATING: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY 0

**6. ACCIDENTAL RELEASE MEASURES**

**SPILL PROCEDURES:** DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE EQUIPMENT. SLIPPING HAZARD; DO NOT WALK THROUGH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. FOR SMALL SPILLS, ABSORB OR COVER WITH DRY EARTH, SAND, OR OTHER INERT NON-COMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO WASTE CONTAINERS FOR LATER DISPOSAL. CONTAIN LARGE SPILLS TO MAXIMIZE PRODUCT RECOVERY OR DISPOSAL. PREVENT ENTRY INTO WATERWAYS OR SEWERS. IN URBAN AREA, CLEANUP SPILL AS SOON AS POSSIBLE. IN NATURAL ENVIRONMENTS, SEEK CLEANUP ADVICE FROM SPECIALISTS TO MINIMIZE PHYSICAL HABITAT DAMAGE. THIS MATERIAL WILL FLOAT ON WATER. ABSORBENT PADS AND SIMILAR MATERIALS CAN BE USED. COMPLY WITH ALL LAWS AND REGULATIONS.

**7. HANDLING AND STORAGE**

**HANDLING PROCEDURES:** AVOID WATER CONTAMINATION AND EXTREME TEMPERATURES TO MINIMIZE PRODUCT DEGRADATION. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES THAT CAN IGNITE WITH EXPLOSIVE FORCE. DO NOT PRESSURIZE, CUT, WELD, BRAZE SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO FLAMES, SPARKS, HEAT OR OTHER POTENTIAL IGNITION SOURCES. CONSULT APPROPRIATE FEDERAL, STATE AND LOCAL AUTHORITIES BEFORE REUSING, RECONDITIONING, RECLAIMING, RECYCLING OR DISPOSING OF EMPTY CONTAINERS AND/OR WASTE RESIDUES OF THIS PRODUCT.

**STORAGE PROCEDURES:** KEEP CONTAINER CLOSED. DO NOT STORE WITH STRONG OXIDIZING AGENTS. DO NOT STORE AT TEMPERATURES ABOVE 120°F OR IN DIRECT SUNLIGHT FOR EXTENDED PERIODS OF TIME. CONSULT APPROPRIATE FEDERAL, STATE AND LOCAL AUTHORITIES BEFORE REUSING, RECONDITIONING, RECLAIMING, RECYCLING OR DISPOSING OF EMPTY CONTAINERS OR WASTE RESIDUES OF THIS PRODUCT.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>ENGINEERING CONTROLS:</b>	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.
<b>GLOVES PROTECTION:</b>	NO SPECIAL SKIN PROTECTION OTHER THAN GOOD PERSONAL HYGIENE PRACTICE IS RECOMMENDED UNDER ANTICIPATED CONDITIONS OF USE. HOWEVER, WHEN PROLONGED OR EXTENSIVE CONTACT IS POSSIBLE, USE OF DISPOSABLE PCV OR NITRILE GLOVES IS RECOMMENDED. WASH HANDS WITH PLENTY OF MILD SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, USING TOILET FACILITIES, OR LEAVING WORK.
<b>EYE PROTECTION:</b>	SAFETY GLASSES EQUIPPED WITH SIDE SHIELDS SHOULD BE ADEQUATE PROTECTION UNDER MOST CONDITIONS OF USE. WEAR GOGGLES AND/OR FACE SHIELD IF SPLASHING OR SPRAYING IS LIKELY, ESPECIALLY IF MATERIAL IS HEATED ABOVE 125° F (OR 51° C). HAVE SUITABLE EYE WASH WATER AVAILABLE.
<b>RESPIRATORY PROTECTION:</b>	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. IF ELEVATED AIRBORNE CONCENTRATIONS ABOVE APPLICABLE WORKPLACE EXPOSURE LEVELS ARE ANTICIPATED, A NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR EQUIPPED WITH A DUST/MIST PREFILTER SHOULD BE USED. PROTECTION FACTORS VARY DEPENDING UPON THE TYPE OF RESPIRATOR USED. RESPIRATORS SHOULD BE USED IN ACCORDANCE WITH OSHA REQUIREMENTS (29 CFR 1910.134).
<b>CLOTHING RECOMMENDATION:</b>	AVOID PROLONGED AND/OR REPEATED SKIN CONTACT, ESPECIALLY AFTER THIS PRODUCT HAS BEEN USED IN A CRANKCASE. IF SPLASHING OR SPRAYING IS EXPECTED, CHEMICAL-RESISTANT (TYVEK®, NITRILE, OR NEOPRENE) PROTECTIVE CLOTHING SHOULD BE WORN. THIS MIGHT INCLUDE LONG-SLEEVES, APRON, SLICKER SUIT, BOOTS, AND ADDITIONAL FACIAL PROTECTION. IF GENERAL CONTACT OCCURS, PROMPTLY REMOVE SOAKED CLOTHING AND TAKE A SHOWER.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	AMBER TO DARK AMBER LIQUID
<b>ODOR:</b>	MILD PETROLEUM ODOR
<b>pH:</b>	N/A
<b>VAPOR PRESSURE, mm Hg (25 °C):</b>	$\sim 1 \times 10^{-5}$ TO $2 \times 10^{-4}$
<b>VAPOR DENSITY:</b>	> 1 (AIR = 1)
<b>MELTING POINT:</b>	NOT AVAILABLE.
<b>BOILING POINT, 760 mm Hg, °C:</b>	~365-460
<b>SOLUBILITY IN WATER:</b>	INSOLUBLE IN COLD WATER
<b>SPECIFIC GRAVITY:</b>	0.88 (WATER = 1)
<b>EVAPORATION RATE: (Butyl Acetate = 1)</b>	< 1
<b>VISCOSITY 40°C (100°C)</b>	N/D
<b>MOLECULAR WEIGHT:</b>	N/A
<b>PERCENT VOLATILE:</b>	NEGLIGIBLE VOLATILITY

**10. STABILITY AND REACTIVITY**

<b>STABILITY:</b>	STABLE
<b>INCOMPATIBILITY:</b>	STRONG OXIDIZERS, STRONG ACIDS, CAUSTICS
<b>POLYMERIZATION:</b>	NOT EXPECTED TO OCCUR
<b>THERMAL DECOMPOSITION:</b>	CO <sub>2</sub> , (CO UNDER INCOMPLETE COMBUSTION)

**11. TOXICOLOGICAL INFORMATION**

<b>EYE IRRITATION:</b>	THIS PRODUCT CAN CAUSE MILD, TRANSIENT, EYE IRRITATION WITH SHORT-TERM CONTACT WITH LIQUID OR SPRAYS.
<b>DERMAL IRRITATION:</b>	THIS MATERIAL CAN CAUSE MILD, TRANSIENT SKIN IRRITATION WITH SHORT-TERM EXPOSURE.
<b>INHALATION TOXICITY:</b>	NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE TO THIS PRODUCT. ASPIRATION OF LIQUID INTO THE LUNGS CAN CAUSE SEVERE LUNG DAMAGE OR DEATH.
<b>INGESTION IRRITATION:</b>	IF SWALLOWED, NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE ANTICIPATED. INGESTION CAN CAUSE MILD IRRITATION TO THE DIGESTIVE TRACT OR CAUSE A LAXATIVE EFFECT.
<b>INJECTION SENSITATION:</b>	INJECTION UNDER THE SKIN, IN MUSCLE, OR INTO THE BLOOD STREAM CAN CAUSE IRRITATION, INFLAMMATION, SWELLING, FEVER, AND SYSTEMIC EFFECTS AND MILD CENTRAL NERVOUS SYSTEM DEPRESSION. INJECTION OF PRESSURIZED HYDROCARBONS CAN CAUSE SEVERE, PERMANENT TISSUE DAMAGE. INITIAL SYMPTOMS MAY BE MINOR. INJECTION OF PETROLEUM HYDROCARBONS REQUIRES IMMEDIATE MEDICAL ATTENTION.
<b>CHRONIC EXPOSURE:</b>	PROLONGED OR REPEATED CONTACT CAN CAUSE MILD SKIN IRRITATION AND INFLAMMATION CHARACTERIZED BY DRYING, CRACKING, (DERMATITIS) OR OIL ACNE.

**12. HEALTH INFORMATION**

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

No	HIGHLY TOXIC	No	SENSITIZER
No	TOXIC	No	REPRODUCTIVE EFFECTS
No	CORROSIVE	No	MUTAGEN
No	IRRITANT		

**13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** 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)**

<b>PROPER SHIPPING NAME:</b>	PETROLEUM LUBRICATING OIL
<b>HAZARD CLASS:</b>	NOT A DOT CONTROLLED MATERIAL (UNITED STATES).
<b>HAZARD IDENTIFICATION NUMBER:</b>	N/A
<b>DOT PLACARD:</b>	N/A
<b>COMPATIBILITY CATEGORY:</b>	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 of crude oil and petroleum products 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.

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