

MATERIAL SAFETY DATA SHEET

Identity (as used on label & list)

JUN 03 2002

CASTORINE Tena-Film EP-2500 ST**HAZARD RATINGS**

Health	1
Flammability	1
Reactivity	0
Personal Protection	B

Section I

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HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Section II

Hazardous Components: (chemical identity; common names)

OSHA PEL ACGIH TLV Other Limits Recommended % Optional

This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA. IARC Monographs or National Toxicology Program. The product is formulated from lubricating base stocks which are severely hydrotreated, severely solvent extracted, and/or processed by mild hydrotreatment and extraction.

Exposure Limit for Total Product

5 mg/m³ for oil in air5 mg/m³ for oil mist or fumes.

BASIS

OSHA Regulation 29CFR 1910.1000

Recommended by the American Conference

of Governmental Industrial Hygienists (ACGIH)

Viscosity S.S.U. @ 100° F. = 2500 Typical

PHYSICAL/CHEMICAL CHARACTERISTICS

Section III

Boiling Point (° F)		Specific Gravity (H ₂ O=1)	0.898
ASTM D 2887 I.B.P. approximately	700° F.	Percent, Volatile by Volume (%)	negligible
Vapor Pressure (mm Hg) @ 20° C. less than	0.01mmHg	Evaporation Rate (n-butyl acetate=1) less than	0.01
Vapor Density (air=1) greater than	5	Appearance & Odor. Clear dark brown liquid.	Mild odor.
Solubility in Water	negligible		

FIRE AND EXPLOSION HAZARD DATA

Section IV

Flash Point (method used) ASTM D-92 Minimum 249° C	Flammable Limits	LEL	UEL
(480° F) Auto ignition Temperature: Greater than 600° F.	Estimated values	0.9%	7%

Extinguishing Media. Foam, dry chemical, carbon dioxide, water spray, water fog.

Special Fire Fighting Procedures. NFPA Code: Health 1 Fire 1 Reactivity 0 Use water spray to cool fire-exposed surfaces and to protect personnel. Use air-supplied breathing equipment for enclosed areas.

Unusual Fire and Explosion Hazards

Do not mix or store with strong oxidants like liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

REACTIVITY DATA

Section V

Stability	Unstable	Conditions to Avoid: Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.
	Stable X	

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Byproducts. Fumes, smoke, aldehydes, oxides of carbon, sulfur & phosphorus, in the case of incomplete combustion.

Hazardous	may occur	Conditions to avoid:
Polymerization	will not occur X	

HEALTH HAZARD DATA Section VI

Health Hazards (acute and chronic)

Prolonged or repeated skin contact tends to remove skin oils leading to irritation & dermatitis. Based on toxicological data & human experience, the product is judged to be neither a "corrosive" nor an "irritant" by OSHA CRITERIA. Product contacting the eyes may cause irritation.

Product acute oral Toxicity of LD 50 (Rat) greater than 5g/Kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16g/Kg of body weight.

INHALATION: Vapor pressure is very low. Vapor inhalation under ambient conditions is not a problem.

Carcinogenicity: NIP? No IARC Monographs? No OSHA Regulated No.

Signs and Symptoms of Exposure: Prolonged or repeated skin contact may cause skin irritation. Product contacting eyes may cause irritation.

Medical Conditions:

Generally Aggravated by Exposure: None Known

Emergency First Aid Procedures: SKIN: Wash with soap & water. EYES: Flush with water for 15 minutes

INHALATION: Remove to fresh air. See physician if irritation persists. ORAL: DO NOT induce vomiting. Call a Physician. Product has a low order of acute oral toxicity.

PRECAUTIONS FOR SAFE HANDLING AND USE Section VII

Steps to be taken in case material is released or spilled.

Lubricating grease is slippery and should be immediately removed if spilled. Shovel or scrape excess. Cover area with fullers earth type oil absorbent, sand or sawdust. Residue can be removed with emulsion cleaners.

Waste Disposal Method: Incinerate in an approved manner or use approved land fill facility. Disposal should be in compliance with Federal, State and Local laws. RCRA STATUS: Not a hazardous waste RCRA (40CFR 261)

Precautions to be taken in Handling and Storing:

Keep containers closed when not in use. Store in clean area and protect from airborne dust and foreign material. Keep away from open flame.

Other Precautions:

CONTROL MEASURES Section VIII

Respiratory Protection(specify type) Not required in normal use.

Ventilation: Local Exhausts. Not required in normal use.	Special Other
Mechanical (general) Not required in normal use.	

Protective Gloves normally not required. Use chemically resistant gloves for prolonged exposure.	Eye Protection. Usually not required. Product is a gel.
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Other Protective Clothing or Equipment.

Work/Hygienic Practices.

NA = Not Applicable

ND = No Data Available

Modified from OSHA 174

1/14/02