



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### MATERIAL IDENTITY

**Product code and name:**

45776 PINNACLE MARINE GEAR 220

**Chemical name and/or family or description:**

Gear Lubricant

**Manufacturer's name and address:**

Fuel and Marine Marketing and its Affiliates

1500 Louisiana Street

Houston, TX 77002

Phone: (832) 854-6000

Transportation Emergency: CHEMTREC (USA) (800) 424-9300 or (703) 527-3887

Health Emergency: ChevronTexaco Emergency Information Center: Emergency Information Centers are located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623

MSDS Assistance (USA): (832) 854-6000

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Product and/or component(s)

**Carcinogenic According to:**

NONE

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<u>Name</u>	<u>Cas nr</u>	<u>Range in %</u>
Synthetic base oil	68037-01-4	65 - 79.99
5.00 mg/m3 SUPPLIER RECOMMENDS Tris tridecyl trimellitate	36631-30-8	20 - 34.99

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### 3. HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW

#### WARNING STATEMENT

MAY CAUSE EYE IRRITATION

#### PRECAUTIONARY MEASURES:

-Avoid prolonged breathing of vapor, mist, or gas.

-Avoid contact with eyes.

-Keep container closed.

-Wash thoroughly after handling.

#### HMIS

Health: 1

Flammability: 1

Reactivity: 0  
Special: -  
**NFPA**  
Health: 1  
Flammability: 1  
Reactivity: 0  
Special: -

**Primary Route of Exposure:**

EYES  
SKIN  
INHALATION

**EFFECTS OF OVEREXPOSURE**

Acute:

Eyes:

May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

Skin:

Brief contact is not irritating. Prolonged contact, as with clothing wetted with material, may cause defatting of skin or irritation, seen as local redness with possible mild discomfort.

Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact, see other effects, below, and Section 11 for information regarding potential long term effects.

Inhalation:

Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Ingestion:

If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur.

Sensitization Properties:

Believed not to be a sensitizer.

Chronic:

No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.

Medical Conditions Aggravated by Over Exposure:

Because of its defatting properties, prolonged and repeated skin contact may aggravate an existing dermatitis (skin condition).

Other Remarks:

When overheated, product may release hydrogen sulfide (H<sub>2</sub>S) gas. H<sub>2</sub>S concentrations above permissible concentrations can cause irritation of the eyes and respiratory tract, headache, dizziness, nausea, vomiting, diarrhea and pulmonary edema. At concentrations above 300 ppm, respiratory paralysis, causing unconsciousness and death, can occur.

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#### **4. FIRST AID MEASURES**

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin:

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin

irritation develops or persists.

Ingestion:

If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Other Instructions:

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

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## **5. FIRE-FIGHTING MEASURES**

Ignition Temperature - AIT (degrees C):

Not determined.

Flash Point (degrees C):

113 (COC)

Recommended Fire Extinguishing Agents and Special Procedures:

Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards:

Hydrogen sulfide (H<sub>2</sub>S) may be released if overheated.

Extinguishing Media Which Must Not be Used:

Water jet.

Special Protective Equipment for Firefighters:

Wear full protective clothing and positive pressure breathing apparatus.

**FIRE:**

In case of fire, use water spray, dry chemical, foam or carbon dioxide. Water may cause frothing. Use water spray to cool fire-exposed containers.

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## **6. ACCIDENTAL RELEASE MEASURES**

**Procedures in Case of Accidental Release, Breakage or Leakage:**

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

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## **7. HANDLING AND STORAGE**

**Precautions to be Taken in**

Handling:

Minimum feasible handling temperatures should be maintained.

Avoid prolonged or repeated contact with skin.

Storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

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Keep containers closed.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Protective Equipment (Type)**

#### Eye/Face Protection:

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

#### Skin Protection:

Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

#### Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

#### Ventilation:

Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

#### Exposure Control for Total Product:

None established for product, refer to Section 2 for component exposure limits.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear liquid
Odor:	Not determined
Boiling Point (degrees C):	>349 C
Specific Gravity (water=1):	.877
Vapor Pressure:	0.05 mmHg at 149 C
Viscosity (degrees C):	216 cSt ( 40 )

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## **10. STABILITY AND REACTIVITY**

### **This material reacts violently with:**

Strong Oxidizers

#### Comments:

Under extreme temperatures or extended storage periods, hydrogen sulfide (H<sub>2</sub>S) gas may accumulate in the head-space of container.

#### Products Evolved When Subjected to Heat or Combustion:

Carbon monoxide, carbon dioxide, irritating aldehydes and ketones.

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#### Hazardous Polymerizations:

No

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## **11. TOXICOLOGICAL INFORMATION**

## **TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)**

### **Median Lethal Dose**

Oral:

LD50 Believed to be > 5.00 g/kg (rat) practically non-toxic

Inhalation:

Not determined.

Dermal:

LD50 Believed to be > 2.00 g/kg (rabbit) practically non-toxic

### **Irritation Index, Estimation of Irritation (Species)**

Skin:

(Draize) Believed to be < 0.5 /8.0 (rabbit) no appreciable effect

Eyes:

(Draize) Believed to be > 15 - 25 /110 (rabbit) slightly irritating

Sensitization:

Not determined.

Other:

None

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## **12. DISPOSAL CONSIDERATIONS**

Waste Disposal Methods:

Dispose of this product in accordance with local and/or national regulations.

US/RCRA Waste Disposal Methods:

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Remarks:

None

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## **13. TRANSPORT INFORMATION**

**DOT:**

Not regulated

**IMDG:**

Not regulated

**ICAO:**

Not regulated

**TDG:**

Not regulated

**ADR/RID**

Not regulated

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## **14. REGULATORY INFORMATION**

**Regulatory Information:**

SARA 311 Hazard Categorization:

Acute

WHMIS:

Not controlled

Regulatory Comments:

This product, or its components, are listed on or are exempt from the Toxic Substance

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Control Act (TSCA) Chemical Substance Inventory.

This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

This product, or its components, are listed on or are exempt from the Japanese Ministry of International Trade and Industry (MITI) inventory.

This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List (DSL).

This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

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## **15. ENVIROMENTAL INFORMATION**

Aquatic Toxicity:

Not classified as toxic.

Mobility:

Spillages may penetrate the soil causing ground water contamination.

Persistence and Biodegradability:

According to European Union criteria: Not readily biodegradable.

Potential to Bioaccumulate:

Considered unlikely to bioaccumulate.

Remarks:

Believed not to represent a long-term danger to the aquatic environment.

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## **16. OTHER INFORMATION**

Other Information:

None

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## **17. PRODUCT LABEL**

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Flammability:

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Reactivity:  
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Special:  
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**NFPA**

Health:  
1  
Flammability:  
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Reactivity:  
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Special:  
-

**Eyes:**

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**Skin:**

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

**Ingestion:**

If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

**Inhalation:**

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

**FIRE:**

In case of fire, use water spray, dry chemical, foam or carbon dioxide. Water may cause frothing. Use water spray to cool fire-exposed containers.

**DOT:**

Not regulated

**Manufacturer's name and address:**

Fuel and Marine Marketing and its Affiliates  
1500 Louisiana Street  
Houston, TX 77002  
Phone: (832) 854-6000

**Telephone numbers:**

Transportation Emergency: CHEMTREC (USA) (800) 424-9300 or (703) 527-3887  
Health Emergency-Company: (800) 231-0623 or (510) 231-0623

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Product Code :

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Date Issued : 16/11/2004

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

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