

MATERIAL SAFETY DATA SHEETS

Trade Name: **COAST EDGER-ARBOR OIL 100/32**
Commodity Code: Arbor 100 / 32 Date: October 17, 2002
Synonyms: Lubricating Oil Technical Contact: Coast Oil Company
Safety Director: (408)252-7720
CAS NO.: Mixture Chemtrec Emergency: (800)424-9300
(Refer to Section 1.0)

MATERIAL HAZARD EVALUATION
(Per OSHA Hazard Communication)

Health: Final Product Non-Hazardous. Possible Minor Allergen.

Precautionary Statement: Avoid prolonged skin contact.

HMIS Rating¹: Health 1 Flammability 1 Reactivity 0

1.0 Generic Composition/Components

<u>Components</u>	<u>CAS #</u>	<u>%</u>	<u>Hazard Data</u>
Refined Petroleum Oil(s)	64742-53-6	96 - 98	Oral: LD50(rat): >15g/kg
Distilled Tall-Oil			Eye: Practically Non-Irritating
Fatty Acids:	61790-12-3	2 - 4	Skin: Practically Non-Irritating
			Inhl: LC50/4H(rat): >5,000mg/m ³
			Eye: Minor irritant
			Dermal: Minor irritant

Oil Mist if Generated	Exposure Limits in Air:
	ACGIH/TLV TWA OSHA PEL TWA
	5MG/M3 5MG/M3
	OSHA PEL STEL
	None Established
	CAL OSHA TWA
	10MG/M3 5MG/M3

Comment [EK1]:

Hazard Rating: Least - 0, Slight - 1, Moderate - 2, High - 3, Extreme - 4

¹ Hazard Rating: Least - 0, Slight - 1, Moderate - 2, High - 3, Extreme - 4

2.0 Physical Data

Comment [DS2]: Page: 2

Physical Hazard Classification (Per 29 CFR Part 1910.1200)

Yes	Combustible	Yes	Flammable	No	Pyrophoric
No	Compressed Gas	No	Organic Peroxide	No	Reactivity
No	Explosive	No	Oxidizer	Yes	Stable

API Gravity: 24,5 F
Pour Point: 0°F
Boiling Point, 760 mmHg, °F(°C): 350c
Specific Gravity (60/60°F) (H₂O. = 1): 0.85 - 0.90
Vapor Density (Air=1): >1
% Volatiles by Volume: Negligible
Melting Point, °C(°F): NA
Vapor Pressure, mmHg (20°C): ~<0.001 mmHg
Solubility in H₂O., % by Weight: Insoluble
Evaporation Rate (Butyl Acetate = 1): Slower than Ether
pH of Undiluted Product: ND
Appearance and Odor: Amber liquid, No odor.
Density: 7.2 lb/gal
Molecular Weight: >460
How To Detect This Substance: Viscous only. Amber colored liquid with a characteristic petroleum odor and slippery feel.

3.0 Fire and Explosion Data

Flash Point, CC, °F (°C)	300° (149°)
Fire Point, CC, °F	360
NFPA Rating ⁴	Health: 1 Flammability: 1 Reactivity: 0
Flammable Limits (% by volume in air)	Lower: 1% volume (mist) Upper: 10% volume (mist)
Extinguishing Media	Carbon dioxide, foam, dry chemical
Special Fire Fighting Procedure	None.
Unusual Fire or Explosion Hazard	Material may burn, but not ignite readily

4.0 Reactivity Data

Stability: Stable
Conditions Contributing to Instability: None
Incompatibility: Strong oxidants
Hazardous Decomposition Products: Thermal decomposition in the presence of air may yield major amounts of oxides of carbon and minor amounts of oxides of sulfur and nitrogen.
Conditions Contributing to Hazardous Polymerization: None

NA - Not Applicable

ND - No Data

NE - Not Established
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Unusual Fire and Explosion Hazards: Move container from fire area if you can do so without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks and drums--Heated containers may rupture, explode or be thrown into the air. Heated vapors may be sensitive to static discharge, resulting in fire or explosion.

Fire Fighting Procedures: Withdraw immediately in case of rising sound from venting safety device or discoloration of tank due to fire. Keep storage containers cool with water spray. Use self-contained breathing apparatus (SCBA).

NFPA Rating (0=least, 4=extreme): Health = 1 Fire = 1 Reactivity = 0

5.0 Spill or Leak Procedures

Procedures if Material is Spilled:

- Remove sources of heat or ignition, provide adequate ventilation, contain leak for possible re-refining.
- **Small Spills:** Absorb with suitable material such as rags, clay absorbent, or sand. Place into containers for later removal.
- **Large Spills:** Contain spill in earthen dikes for later recovery.
- Report spills as required to appropriate authorities.

Waste Disposal:

- It is the responsibility of the user to determine if the material is hazardous waste at the time of disposal.
- Check before disposing to be sure you are in compliance with all applicable laws and regulations.
- Chemtrec/RCRA Emergency Hotline Number: 800-424-9300.

Protective Measures During Repair and Maintenance of Contaminated Equipment:

- Refer to Section VII - Special Protection Information.
- Wash exposed skin thoroughly with soap and water.
- Avoid prolonged contact with used oil.
- Remove soiled clothing.
- Use oil impervious gloves if frequent or prolonged contact is expected.

NA - Not Applicable

ND - No Data

NE - Not Established
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Comment [DS3]: Page: 3

6.0 Health Hazard Data

Health Hazard Classification

(Per 29 CFR Part 1910.1200)

No	Carcinogen	No	Corrosive
No	Animal Carcinogen	No	Irritant
No	Suspect Carcinogen	No	Sensitizer
No	Mutagen	No	Teratogen
No	Highly Toxic	No	Target Organ
No	Toxic		

Product listed as Carcinogen or Potential Carcinogen by:

NTP No IARC No OSHA No Other No

Toxicity Summary: Practically non-toxic, except for minor allergenic potential.

Major Route(s) of Entry: Inhalation of incidental mists or vapors.

Acute Exposure Symptoms

Inhalation: Low risk of inhalation at ambient temperatures. Mists or fumes may cause drowsiness, dizziness, headache, nausea, or lung irritation or chemical pneumonitis. High concentrations of vapor or mist may be irritating to the respiratory tract. Including nose and throat, may cause difficulty breathing.

Dermal Contact: Transient, slight irritant, possible mild allergen. Prolonged or repeated contact may cause redness, burning and dermatitis. Contact with hot material may cause thermal burns.

Eye Contact: May be mildly irritating. Direct contact may cause burning, tearing and redness. Contact with hot material may cause thermal burns.

Ingestion: Low toxicity. At a Saybolt viscosity of 170 SUS (100°F), the risk of aspiration into the lungs is reduced. If less than 1 oz. is ingested, material may pass through the system without harm. On ingestion of large quantities, slight GI discomfort, diarrhea, and headache may occur. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death. Human lethal dose - 1 pint.

Injection: Subcutaneous or intramuscular injection may cause irritation, erythema, edema.

Chronic Exposure

Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis. High oil mist concentrations may lead to oil pneumonia.

Other Special Effects

None.

NA - Not Applicable

ND - No Data

NE - Not Established

Medical Conditions Aggravated by Exposure

Contact with skin may aggravate pre-existing dermatitis.

First Aid and Emergency Procedures for Acute Effect

Inhalation: Remove to fresh air. Respiratory support if necessary, should be administered by qualified personnel. Do not leave victim unattended. Seek medical attention if necessary.

Dermal: Do not use gasoline's, thinners or solvents to remove product from skin. Wipe material from skin and remove contaminated clothing. Wash with soap and water, and if necessary a waterless skin cleaner. Do not wear heavily contaminated clothing before laundering.

Eyes: Flush with water for 15 minutes lifting upper and lower lids occasionally. See physician if any complications arise.

Ingestion: Do not induce vomiting, because material can enter the lungs and cause severe damage. Drink 4 to 8 ounces of water and seek immediate medical attention. Do not leave victim unattended. If vomiting occurs, or if comatose or lethargic, place on the left side with the head down, seek immediate medical attention.

Injection: Subcutaneous injection is medical emergency. Seek medical aid immediately.

Notes to Physician: Following ingestion, at a Saybolt viscosity of ~170 SUS @ 100°F, the risk of aspiration into the lungs is reduced. For quantities above 1 oz., emesis or lavage may be considered. Subcutaneous or intramuscular injection requires prompt surgical debridement. If not familiar with technique, seek skilled advise.

7.0 Special Protection Information

Ventilation Requirements: Use in well ventilated area. In confined space, mechanical ventilation may be required to keep levels of certain components below mandated standards, as evaluated by designated personnel. Keep away from heat, sparks and flames.

NA - Not Applicable ND - No Data NE - Not Established
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Permitted Threshold Air Concentrations:

Petroleum Hydrocarbon Mist	TLV-TWA	5mg/m ³	OSHA-PEL	5/mg/m ³
	TLV-STEL	10mg/m ³	OSHA-STEL	ND
	TLV-Ceiling	ND	OSHA-Ceiling	ND

Specific Personal Protective Equipment:

- Respiratory:** Normally none required. If high vapor or mist concentrations expected - use respirator approved for organic vapors and mists.
- Eyes:** Avoid contact with eyes. Safety goggles, or chemical splash goggles if splashing is anticipated. Contact lenses should not be worn.
- Dermal:** Oil impervious gloves if frequent or prolonged contact is expected. Barrier creams that are specific for oil based materials are recommended when gloves are impractical.
- Other Clothing or Equipment:** Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder soiled work clothes before reuse. It is suggested that a source of clean water be available in work area for flushing eyes and skin.

8.0 Transportation and Special Precautions

- Storage:** Do not apply high heat or flame to container. Keep separate from strong oxidizing agents. Keep container tightly closed.
- Caution:** Empty containers may contain product residue which could include flammable or explosive vapors.

Consult appropriate Federal, State and Local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

DOT Information

DOT/UN Shipping Name:	Petroleum Lubricating Oil
DOT Hazard Class:	Non-Hazardous
DOT/UN Hazard Identification Number:	None Assigned
DOT Shipping Container Restrictions:	None
DOT Placard:	None
CHRIS Code:	ND
Compatibility Category:	ND

9.0 Environmental Data

Product Name EDGER-ARBOR OIL 32/100
 Commodity Code: ARBOR 32/100

10.0 Labeling

NOTE

*Prevent direct dermal contact with material.
May have mild allergenic potential.*

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NA - Not Applicable

ND - No Data

NE - Not Established