



GULF OIL
MATERIAL SAFETY DATA SHEET

GULF HARMONY R&O 22 TURBINE/
HYDRAULIC OIL

Page 1
Product Code: 334201

NFPA HAZARD RATING

- 4 - Extreme
- 3 - High
- 2 - Moderate
- 1 - Slight
- 0 - Insignificant

PRODUCT NFPA HAZARD RATING

- Health - 0
- Fire - 1
- Reactivity - 0

DIVISION AND LOCATION---SECTION I

Division: MASTER DISTRIBUTOR OF GULF LUBRICANTS
Location: AMERICAN REFINING GROUP INC
77 N. KENDALL AVENUE, BRADFORD, PA, 16701
Emergency Telephone Number: 814-368-1297
Transportation Emergency: CHEMTREC 1-(800) 424-9300 (U.S. and Canada)

CHEMICAL AND PHYSICAL PROPERTIES---SECTION II

Chemical Name: petroleum hydrocarbon plus additives
Hazardous Decomposition Products:
carbon monoxide and carbon dioxide from burning, oxides of sulfur and phosphorous for burning.
Incompatibility (Keep away from):
strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

Products Components	CAS No.	% (Volume)
Severely Hydrotreated/Hydrocracked Base Oil	Mixture	>95
Additives	Mixture	1-5

Form: liquid
Appearance: liquid
Specific Gravity (water=1): 0.86
Boiling Point: greater than 330°C (625°F)
Pour Point: less than -15C (5 F)
Solubility in Water (by weight %): 0 at 20°C
Volatile (by weight %): 0
Evaporation Rate: 0
Vapor Pressure (mm Hg at 20°C): 0
Vapor Density (air=1): not volatile
pH (as is): not applicable
Stability: Product is stable under normal conditions
Viscosity SUS at 100°F: Greater than or = to 100

(Continued on next page)



G U L F O I L
M A T E R I A L S A F E T Y D A T A S H E E T

**GULF HARMONY R&O 22 TURBINE/
HYDRAULIC OIL**

Page 2
Product Code: 344201

FIRE AND EXPLOSION DATA---SECTION III

Special Fire Fighting Procedures:

Do not use water except as fog.

Unusual Fire and Explosion Hazards:

Do not cut, weld, braze, solder, drill, grind or expose containers, drums, tanks, etc. of product to heat, flame, sparks, static electricity or other sources of ignition; they may ignite explosively.

Flash-point: (Method Used) Cleveland open cup 196°C (385°F)

Flammable limits % : not applicable

Extinguishing agents:

Drychemical or Waterfog or CO₂ or Foam.

Closed containers exposed to fire may be cooled with water.

HEALTH HAZARD DATA---SECTION IV

If used in applications where a mist may be generated, observe a TWA/PEL of 5 mg/m³ for mineral oil mist (OSHA and ACGIH).

Chronic effects of overexposure: Prolonged or repeated skin contact may cause dermatitis (skin irritation).

Acute toxicological properties: no data available

Emergency First Aid Procedures:

Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician.

Skin Contact: Remove excess with cloth or paper. Wash thoroughly with soap and water.

Inhalation: Remove victim to fresh air. Call a physician.

If Swallowed: Contact a physician immediately.

SPECIAL PROTECTION INFORMATION---SECTION V

Ventilation Type Required (Local, mechanical, special):

Local if necessary to maintain allowable PEL(permissible exposure limit) or TLV(threshold limit value).

Respiratory Protection (Specify type): Use NIOSH/MSHA certified respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit.

Protective Gloves: neoprene type

Eye Protection:

chemical safety goggles

Other Protective Equipment: none



G U L F O I L
M A T E R I A L S A F E T Y D A T A S H E E T

**GULF HARMONY R&O 22 TURBINE/
HYDRAULIC OIL**

Page 3
Product Code: 334201

HANDLING OF SPILLS OR LEAKS---SECTION VI

Procedures for Clean-Up: Transfer bulk of mixture into another container. Absorb residue with an inert material such as earth, sand, or vermiculite. Sweep up and dispose as solid waste in accordance with local, state, and federal regulations.

Waste Disposal: Dispose of in accordance with all applicable federal, state and local regulations.

SPECIAL PRECAUTIONS---SECTION VII

Precautions to be taken in handling and storage:

Do not handle or store at temperatures over
Maximum Storage Temperature: 60 ° C (140 ° F)

TRANSPORTATION DATA---SECTION VIII

D.O.T: Not Regulated

Reportable Quantity: not applicable

Freight Classification: Petroleum Lubricating Oil

Special Transportation Notes: none

ENVIRONMENTAL/SAFETY REGULATIONS---SECTION IX

Section 313 (Title III Superfund Amendment and Reauthorization Act):

This product does not contain any chemical in sufficient quantity to be subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

COMMENTS

The additive mixtures in this product have been declared a trade secret by the additive manufacturers.

All components of this product are on the US TSCA Inventory.

(Continued on next page)



G U L F O I L
M A T E R I A L S A F E T Y D A T A S H E E T

=====

**GULF HARMONY R&O 22 TURBINE/
HYDRAULIC OIL**

=====

Page 4
Product Code: 334201

=====

Prepared by: MONICA C. MATHERS
Title: PRODUCT COMPLIANCE COORDINATOR
Original Date: 07/22/02
Revision Date: 04/11/08
Supersedes: 03/30/05

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.