



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

Product code and name:

GEN44 REGAL R&O OILS

Chemical name and/or family or description:

Turbine Oils

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product and/or component(s)

Carcinogenic According to:

NONE

This Material Safety Data Sheet may be used for the following products for Hazard Communications purposes only, not intended to imply identical performance/technical specifications: 40700 Regal R&O 32 40701 Regal R&O 46 40702 Regal R&O 68

<u>Name</u>	<u>Cas nr</u>	<u>Range in %</u>
Severely refined petroleum distillates. May contain any of the following CAS numbers: 64741-88-4, 64741-89-5, 64741-96-4, 64741-97-5, 64742-01-4, 64742-52-5, 64742-53-6, 64742-54-7, 64742-62-7, 64742-65-0, or 72623-83-7. 5.00 mg/m3 TWA-OSHA (MINERAL OIL MIST) 5.00 mg/m3 TWA-ACGIH (MINERAL OIL MIST) 10.00 mg/m3 STEL ACGIH (MINERAL OIL MIST)	-	95 - 99.99

PRODUCT IS NON-HAZARDOUS ACCORDING TO OSHA (1910.1200).

3. HAZARD IDENTIFICATION

Fuel and Marine Marketing
And its Affiliates
1500 Louisiana Street
Houston, TX 77002
USA

(832) 854-6000

Page : 1 / 8

Revision: 3
15/11/2004

EMERGENCY OVERVIEW

WARNING STATEMENT

NONE CONSIDERED NECESSARY

PRECAUTIONARY MEASURES:

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

-Workers should wash exposed skin several times daily with soap and water.

HMIS

Health: 0

Flammability: 1

Reactivity: 0

Special: -

NFPA

Health: 0

Flammability: 1

Reactivity: 0

Special: -

Primary Route of Exposure:

EYES

SKIN

INHALATION

EFFECTS OF OVEREXPOSURE

Acute:

Eyes:

May cause minimal irritation, experienced as temporary discomfort.

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. Aspiration may occur during swallowing or vomiting resulting in lung damage.

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 irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).

Other Remarks:

Material from high pressure equipment, pinhole leaks, or high pressure line failure can penetrate the skin and, if not properly treated, can cause severe injury, including disfigurement, loss of function, or even require amputation of the affected area. To prevent

such serious injury, immediate medical attention should be sought even if the injection injury appears to be minor.

4. FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

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.

Note to Physician:

High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

5. FIRE-FIGHTING MEASURES

Ignition Temperature - AIT (degrees C):

Not determined.

Flash Point (degrees C):

> 204 (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:

None

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.

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.

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.
Keep containers closed.

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:

Adequate to meet component occupational exposure limits (see Section 2).

Exposure Control for Total Product:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light pale liquid
Viscosity (degrees C):	32-68 cSt (40)

10. STABILITY AND REACTIVITY

This material reacts violently with:

Strong Oxidizers

Comments:

None

Products Evolved When Subjected to Heat or Combustion:

Carbon monoxide, carbon dioxide, irritating aldehydes and ketones.

-

Hazardous Polymerizations:

No

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 /110 (rabbit) no appreciable effect

Sensitization:

Not determined.

Other:

None

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

13. TRANSPORT INFORMATION

DOT:

Not regulated

IMDG:

Not regulated

ICAO:

Not regulated

TDG:

Not regulated

ADR/RID

Not regulated

14. REGULATORY INFORMATION

Regulatory Information:

SARA 311 Hazard Categorization:

N/A

WHMIS:

Not regulated

Regulatory Comments:

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

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.

16. OTHER INFORMATION

Other Information:

None

17. PRODUCT LABEL

MATERIAL IDENTITY

Product code and name:

GEN44 REGAL R&O OILS

This Material Safety Data Sheet may be used for the following products for Hazard Communications purposes only, not intended to imply identical performance/technical specifications: 40700 Regal R&O 32 40701 Regal R&O 46 40702 Regal R&O 68

<u>Name</u>	<u>Cas nr</u>	<u>Range in %</u>
Severely refined petroleum distillates. May contain any of the following CAS numbers: 64741-88-4, 64741-89-5, 64741-96-4, 64741-97-5, 64742-01-4, 64742-52- 5, 64742-53-6, 64742-54-7, 64742-62-7, 64742-65-0, or 72623-83-7.	-	95 - 99.99

PRODUCT IS NON-HAZARDOUS ACCORDING TO OSHA (1910.1200).

WARNING STATEMENT

NONE CONSIDERED NECESSARY

PRECAUTIONARY MEASURES:

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

-Workers should wash exposed skin several times daily with soap and water.

HMIS

Health:

0

Flammability:

1

Reactivity:

0

Special:

-

NFPA

Health:

0

Flammability:

1

Reactivity

0

Special:

-

Eyes:

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

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.

Note to Physician:

High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

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

Product Code :

Date Issued : 15/11/04

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.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF THE COMPANY'S PRODUCT STEWARDSHIP PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL THE COMPANY'S PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL THE COMPANY'S PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN. TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. THE COMPANY DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.