



Global Marine Products



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

Product code and name:

44083 LPG COMPRESSOR OIL

Chemical name and/or family or description:

Compressor lubricant

Manufacturer's name and address:

Chevron Marine Products LLC

44 South Broadway

White Plains, NY 10601

Phone: 914-285-7300

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): 914-285-7300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product and/or component(s)

Carcinogenic According to:

NONE

<u>Name</u>	<u>Cas nr</u>	<u>Range in %</u>
Oxirane, methyl-, polymer with oxirane, monobutyl ether	9038-95-3	80 - 98
Phenyl-alpha-naphthylamine	90-30-2	1 - 2.2

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

WARNING STATEMENT

MAY CAUSE LIVER AND KIDNEY DAMAGE BASED ON ANIMAL DATA

PRECAUTIONARY MEASURES:

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

-Avoid contact with eyes, skin, and clothing.

-Wash thoroughly after handling.

HMIS

Health: 2

Flammability: 1

Reactivity: 0

Special:	-
<u>NFPA</u>	
Health:	2
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.

Prolonged, widespread, or repeated skin contact may result in the absorption of potentially harmful amounts of material.

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:

This product is not expected to be a human skin sensitizer based on animal data.

Chronic:

Prolonged and repeated overexposure may cause damage to liver and kidneys.

Medical Conditions Aggravated by Over Exposure:

Repeated overexposure may aggravate existing liver or kidney disease.

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

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 until all traces of material are removed. Remove and clean contaminated clothing (See Other Instructions). Destroy non-resistant footwear. Get medical attention if skin irritation persists or contact has been prolonged.

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.

5. FIRE-FIGHTING MEASURES

- Ignition Temperature - AIT (degrees C):
Not determined.
Flash Point (degrees C):
260 (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.
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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.
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:
Protective clothing such as coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required.

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:	Pale yellow liquid
Odor:	Mild odor
Viscosity (degrees C):	185 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.

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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:

Negative

Other:

This product, or a component of this product, has caused liver and kidney damage in laboratory animals.

This product may contain residual (less than 100 ppm) concentrations of ethylene oxide and/or propylene oxide. Ethylene oxide causes tumors in laboratory animals, there is evidence that propylene oxide also causes tumors in laboratory animals.

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

- | | |
|----------------|---------------|
| <u>DOT:</u> | Not regulated |
| <u>IMDG:</u> | Not regulated |
| <u>ICAO:</u> | Not regulated |
| <u>TDG:</u> | Not regulated |
| <u>ADR/RID</u> | Not regulated |

14. REGULATORY INFORMATION

- Regulatory Information:
SARA 311 Hazard Categorization:
Chronic
Regulated Chemicals:
Residual propylene oxide (typical)
CAS 75-56-9 | % < 0.01 | RQ 100 | TPQ 10000
SARA 302/304 : X | SARA 313 : X | CERCLA : X
Residual ethylene oxide (typical)
CAS 75-21-8 | % < 0.01 | RQ 10 | TPQ 1000
SARA 302/304 : X | SARA 313 : X | CERCLA : X
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:

Texaco recommends that all exposures to this product be minimized by strictly adhering to recommended occupational controls procedures to avoid any potential adverse health effects.

Ethoxylated/propoxylated products may contain residual amounts of free ethylene oxide and/or propylene oxide, which can accumulate in the container headspace and be released into the ambient environment. This process is enhanced when the product is agitated, as during tank car loading and unloading, and blending operations. Ethylene oxide causes tumors in laboratory animals, there is evidence that propylene oxide also causes tumors in laboratory animals. The Occupational Safety and Health Administration (OSHA) Permissible Exposure Level (PEL) for EO is 1.0 ppm for an eight-hour time weighted average exposure. The standard regulates occupational exposure to EO from all sources, including products containing residual EO. It is the responsibility of the employer to comply with the OSHA ethylene oxide standard (29 CFR 1910.1047) The OSHA and ACGIH eight-hour time weighted average exposure limits for PO are both 20 ppm. The Texaco internal standard is 10 ppm for an eight- hour time weighted average exposure.

17. PRODUCT LABEL

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NFPA

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Skin:

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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:

Chevron Marine Products LLC
44 South Broadway
White Plains, NY 10601
Phone: 914-285-7300

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 : 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.

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.

