



## TECHNICAL DATA REPORT

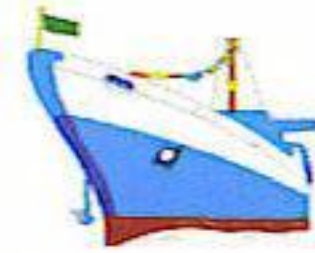


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FROM THE RESEARCH & DEVELOPMENT  
LABORATORIES OF MOMAR, INC.

# Ship-Mate

"Your One Stop for Marine Maintenance"



### Description:

Non-butyl, marine cleaner designed to clean bilges, exhaust stacks, decks, engine rooms, galleys, bulk heads, and engines.

### Benefits:

- \* When used properly, Ship-Mate can be used for **ALL** of your marine maintenance needs.
- \* All-purpose liquid used for: herding and dispersing oil spills, degassing storage tanks, removing oil from sand, and cleaning and maintaining marine equipment
- \* Economical and labor saving.

### Application:

For Light Cleaning (including walls, bilges, exhaust stains, water scum, vinyl): dilute 1 part Ship-Mate with 25 parts water.

For Medium Cleaning (including ramps, decks, engine rooms, galleys): dilute 1 part Ship-Mate with 15 parts water.

For Heavy Cleaning (including engines, no. 6 crude, grease traps): dilute 1 part Ship-Mate with 7 parts water.

For Steam Cleaning: dilute 1 part Ship-Mate with 20 to 200 parts water depending on desired strength of solution.

For Herding Oil Spills: Pour Ship-Mate undiluted completely around oil spill, pick up using a conventional mechanical methods.

### Specifications:

pH @ 25°C (ASTM-E-70)	.....	12.5 - 13.5
Density @ 25°C (ASTM-D-287)	.....	1.07 gm per cc
Color (visual)	.....	Light Blue
Appearance @ 25°C (visual)	.....	Clear
Foam Height	.....	Medium
Percent Solids	.....	5.0 - 6.0
Flash Point	.....	Non-Flammable
Odor	.....	None
Health / Flammability / Reactivity	.....	2/0/0

# MOMAR

8 INDULAND CRESCENT, LANSDOWNE CAPE TOWN  
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All of the ingredients in Ship-Mate have been tested for their effect on Aquatic organisms with results showing that Ship-Mate is indeed safe for use on and around marine equipment and ships.

### Aquatic Ecotox Data

- Fathead minnow** (LC50 for 96 hours) - non toxic\*
- Water flea** (EC50 for 48 hours) - non toxic\*
- Green algae** (EC50 for 96 hours) - non toxic\*
- Bluegill Sunfish** (LC50 for 96 hours) - non toxic\*

\*Low toxicity - dilution with water to reduce alkalinity renders Ship-Mate essentially non-toxic. Produces only a slight toxicity in laboratory tests with aquatic organisms because this material is slightly alkaline. If released to surface water, this compound will cause the pH to rise dependent on the buffering capacity of the waterbody. For large bodies of water the pH will be virtually unaffected. For smaller bodies of water the pH could be affected. The only cause for concern is when the pH of the water exceeds 9. Aquatic organisms become increasingly stressed as pH exceeds 9, with many aquatic species being intolerant of pH in excess of 10. This compound does not bioaccumulate in organisms. Consult Material Safety Data for more information on handling of this material.

### Hazard and Toxicity Data

This product does not contain a toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFH372).

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