

# SAFETY DATA SHEET


## FORESPAR® MareLube™ TEF45™

Issue / Revision Date: 1/18/17

### Section 1. Identification

Product Name	FORESPAR® MareLube™ TEF45™
Trademark(s) used on the label	FORESPAR® MareLube™ TEF45™
Other means of identification	Product code: 770065, 770066, 770067, 770068
NSF H-1 Registration Number	8030-01-450-4009 (Applies to #770066 only) Not available.
Manufacturer	Forespar Products Corp. 22322 Gilberto Rancho Santa Margarita, CA 92688 Tel: 1-949-858-8820
Emergency telephone number (with hours of operation)	1-949-858-8820 Mon-Friday Hours 8 a.m.-5 p.m. (USA Pacific Standard Time / California)

### Section 2. Hazards identification

OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard(29 CFR 1910.1200).
Classification of the substance or mixture	SKIN SENSITIZATION - Category 1.
<u>GHS label elements</u>	
Hazard pictograms	
Signal word	Warning
Hazard statements	May cause an allergic skin reaction.
<u>Precautionary statements</u>	
General	Read label before use. If medical advice is needed, have product container or label at hand.

### Section 2. Hazards identification

Prevention	Wear protective gloves. Avoid breathing dust. Contaminated work clothing should not be allowed out of the workplace.
Response	IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
Storage	Not applicable.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise Classified	None known.

### Section 3. Composition/information on ingredients

Substance/mixture	Mixture.
Other means of identification	Not available.
<b><u>CAS number/other identifiers</u></b>	
CAS number	Not applicable.
Product code	770065, 770066, 770067, 770068

Ingredient name	%	CAS number
Calcium bis(dinonylnaphthalenesulphonate)	1 - 5	57855-77-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.
Skin contact	Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

#### Most important symptoms/effects, acute and delayed

### Section 4. First aid measures

#### Potential acute health effects

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	May cause an allergic skin reaction.
Ingestion	No known significant effects or critical hazards.

## Section 4. First aid measures

### Over-exposure signs/symptoms

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	Adverse symptoms may include the following: irritation redness
Ingestion	No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.  See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub>
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No specific fire or explosion hazard.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	No special measures are required.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Section 6. Accidental release measures

### Methods and materials for containment and cleaning up

Small spill	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

Occupational exposure limits None.

Appropriate engineering	Good general ventilation should be sufficient to control worker exposure to Controls airborne controls contaminants.
Environmental exposure Controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
<u>Individual protection measures</u>	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases

or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields.

## Section 8. Exposure controls/personal protection

### Skin protection

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

#### Physical state

Semi-solid

#### Color

White

#### Odor

Mild

#### Odor threshold

Not available

#### pH

Not available

#### Melting point

Not available

#### Boiling point

Not available

#### Flash point

Open cup: 176.67° C (350° F) [Cleveland]

#### Burning time

Not available

#### Burning rate

Not available

#### Evaporation rate

Not available

#### Flammability (solid, gas)

Not available

#### Lower and upper explosive (flammable) limits

Not available

#### Vapor pressure

Not available

#### Vapor density

Not available

#### Relative density

1.13 g/ml

#### Solubility

Insoluble in the following materials: cold water and hot water.

#### Partition coefficient:

Not available

#### n-octanol/water

#### Auto-ignition temperature

Not available

#### SADT

Not available

#### Viscosity

Not available

## Section 10. Stability and reactivity

#### Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### Chemical stability

The product is stable.

#### Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### Conditions to avoid

Do not heat above flash point.

#### Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials.

#### Hazardous decomposition

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Calcium bis (dinonylnaphthalenesulph onate)	LD50 Dermal LD50 Oral	Rabbit Rat	>20 g/kg >5000 mg/kg	- -

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Calcium bis (dinonylnaphthalenesulph onate)	Skin - Moderate irritant	Rabbit	-	0.5 mL	-

#### Sensitization

There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

#### Reproductive toxicity

There is no data available.

#### Teratogenicity

There is no data available.

#### Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### Aspiration hazard

There is no data available.

#### Information on the likely routes of exposure

Dermal contact. Eye contact. Ingestion.

#### Potential acute health effects

##### Eye contact

No known significant effects or critical hazards.

##### Inhalation

No known significant effects or critical hazards.

##### Skin contact

May cause an allergic skin reaction.

##### Ingestion

No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

##### Eye contact

No known significant effects or critical hazards.

##### Inhalation

No known significant effects or critical hazards.

##### Skin contact

Adverse symptoms may include the following:  
irritation  
redness

##### Ingestion

No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

##### Short term exposure

##### Potential immediate effects

No known significant effects or critical hazards.

##### Potential delayed effects

No known significant effects or critical hazards.

##### Long term exposure

##### Potential immediate effects

No known significant effects or critical hazards.

##### Potential delayed effects

No known significant effects or critical hazards.

#### Potential chronic health effects

##### General

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

##### Carcinogenicity

No known significant effects or critical hazards.

##### Mutagenicity

No known significant effects or critical hazards.

##### Teratogenicity

No known significant effects or critical hazards.

##### Developmental effects

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

## Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	166315.8 mg/kg

## Section 12. Ecological information

Toxicity There is no data available.

Persistence and degradability There is no data available.

Bioaccumulative potential There is no data available.

### Mobility in soil

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information			

AERG Not applicable.

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL

Not available.

<b>Section 15. Regulatory information</b>
---

U.S. Federal regulations  
Clean Air Act Section 112  
(b) Hazardous Air  
Pollutants (HAPs)

Clean Air Act Section 602  
Class I Substances

Clean Air Act Section 602  
Class II Substances  
DEA List I Chemicals  
(Precursor Chemicals)

DEA List II Chemicals  
(Essential Chemicals)

**SARA 302/304**Composition/information on ingredients

No products were found.

SARA 304 RQ Not applicable.

**SARA 311/312**

Classification Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Calcium bis(dinonylnaphthalenesulphonate)	1 - 5	No.	No.	No.	No.	No.

**SARA 313**

No products were found.

State regulations

Massachusetts

New York

New Jersey

Pennsylvania

California Prop. 65

International regulations

International lists

None of the components are listed.

None of the components are listed.

None of the components are listed.

None of the components are listed.

No products were found.

**Australia inventory (AICS):** All components are listed or exempted.

**China inventory (IECSC):** All components are listed or exempted.

**Korea inventory:** All components are listed or exempted.

**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.

**Philippines inventory (PICCS):** All components are listed or exempted.

Not listed

Chemical Weapons

Convention List Schedule I

Chemicals

Chemical Weapons

Convention List Schedule II

Chemicals

Chemical Weapons

Convention List Schedule III

Chemicals

Not listed

Not listed



## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	0 *
Flammability	1 *
Physical hazards	0 *

Caution: HMIS® and NFPA ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)

Health	0
Flammability	1
Instability	0

### History

Date of issue mm/dd/yyyy	10/2/2015
Version	1
Revised Section(s)	Not applicable.

### Key to abbreviations

ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

Disclaimer: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Forespar Products Corp. ("Forespar") makes no warranty with respect thereto and disclaims all liability with respect thereon.

Forespar expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Forespar makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Forespar's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.