


## Section 1 : IDENTIFICATION

<b>Product Name</b>	Blue Angel Rig Soap	<b>Recommended Use</b>	Cleaning compound to emulsify, suspend and remove grease and oil.
<b>SDS #</b>	OEG-SDS-001		
<b>Supplier Address</b>	OEG Offshore Inc. 111 Garber Street Cameron, Louisiana 70631	<b>Emergency Contact details</b>	Central Dispatch (800) 453-0271 Emergency Telephone (24 hr) As above

## Section 2 : HAZARDS IDENTIFICATION

<b>Appearance</b>	Light blue liquid	<b>Physical state</b>	Liquid
<b>Odor</b>	No appreciable odor		
<b>Classification</b>	Serious eye damage/eye irritation Category 2	<b>Hazards Not Otherwise Classified (HNOC)</b>	May be harmful if swallowed May be harmful in contact with skin
<b>Signal Word</b>	Warning	<b>Hazard statements</b>	Causes serious eye irritation
<b>Precautionary Statements : Prevention</b>	Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection. <i>(Refer to section 11 for additional information)</i>	<b>Label Sign</b>	

## Section 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Phosphoric Acid	7664-38-2	<1
Hydrofluoric Acid	7664-39-3	<1

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## Section 4 : FIRST AID MEASURES

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** IF IN EYES: Rinse cautiously with water for fifteen minutes holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin Contact** Wash off immediately with plenty of soap and water for at least 15 minutes. If irritation develops seek medical attention. Remove contaminated clothing and launder before re use

**Inhalation** If symptoms of overexposure are experienced remove to fresh air. Seek medical attention if irritation develops or persists.

**Ingestion** Clean mouth with water .Seek immediate medical attention/advice. Do not induce vomiting. Never give anything by mouth to an unconscious person. As with any other chemical personnel should thoroughly wash hands with soap and water after handling this product.

<b>Most important symptoms and effects : Symptoms</b>	Causes serious eye irritation. May be harmful if swallowed. May be harmful in contact with skin.
<b>Indication of any immediate medical attention and special treatment needed : Notes to Physician</b>	Treat symptomatically.

## Section 5 : FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Medium</b>	Water spray (fog) / Carbon dioxide (CO <sub>2</sub> ) / Dry chemical. (Foam)	<b>Unsuitable Extinguishing Medium</b>	Not determined
<b>Specific Hazards Arising from the Chemical</b>	Not determined	<b>Hazardous Combustion Products</b>	Hydrogen gas. Hydrofluoric acid. Carbon monoxide. Phosphorus oxides.
<b>Explosion Data : Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear		

## Section 6 : ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment as detailed in section 8
<b>Environmental precautions</b>	See Section 12 for additional Ecological Information
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so. Spilled material may be slippery
<b>Methods for Clean-Up</b>	Keep in suitable, closed containers for disposal. Small spills can be mopped up. Flush contaminated area with water. Dispose of contaminated absorbent material in accordance with Local State and Federal requirements.

## Section 7 : HANDLING AND STORAGE MEASURES

<b>Precautions for safe handling : Advice on Safe Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke in work areas. Wear personal protective equipment
<b>Conditions for safe storage, including any incompatibilities : Storage Conditions</b>	Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store in aluminum or stainless steel container
<b>Incompatible Materials</b>	Active metals. Metal hydrides. Materials that react with water. Aluminum. Stainless steel

## Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric Acid 7664-38-2	STEL: 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup> (vacated) STEL: 3 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
Hydrofluoric acid 7664-39-3	TWA: 0.5 ppm F TWA: 2.5 mg/m <sup>3</sup> F S* Ceiling: 2 ppm F	TWA: 3 ppm F TWA: 2.5 mg/m <sup>3</sup> F TWA: 2.5 mg/m <sup>3</sup> dust (vacated) TWA: 3 ppm F (vacated) TWA: 2.5 mg/m <sup>3</sup> (vacated) STEL: 6 ppm F	IDLH: 30 ppm Ceiling: 6 ppm 15 min Ceiling: 5 mg/m <sup>3</sup> 15 min TWA: 3 ppm TWA: 2.5 mg/m <sup>3</sup>

### Appropriate engineering controls

<b>Engineering Controls</b>	Apply technical measures to comply with the occupational exposure limits. Recommend use in conjunction with users job safety analysis
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/Face Protection</b>	Safety glasses. Chemical goggles or full face shield
<b>Skin and Body Protection</b>	Wear protective gloves and protective clothing
<b>Respiratory Protection</b>	Ensure adequate ventilation, especially in confined areas. If adequate ventilation is not available use NIOSH approved protection
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice

## Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Appearance</b>	Light blue liquid
<b>Color</b>	Light blue	<b>Odor</b>	No appreciable odor
<b>Odor Threshold</b>	Not determined		

Property	Values	Property	Values
<b>pH</b>	4.47	<b>Evaporation Rate</b>	Not determined
<b>Melting /Freezing Point</b>	Not determined	<b>Boiling Point/Boiling Range</b>	96 °C / 205 °F
<b>Flash Point</b>	No flash point determined	<b>Vapor Density</b>	<1 (Air=1) @ 24°C/75°F
<b>Flammability (Solid, Gas)</b>	Liquid- Not Applicable	<b>Relative Density</b>	1.01
<b>Upper Flammability Limits in Air</b>	Not determined	<b>Water Solubility</b>	Completely soluble
<b>Lower Flammability Limit in Air</b>	Not determined	<b>Oxidizing Properties</b>	Not determined
<b>Vapor Pressure</b>	Not determined	<b>Partition Coefficient</b>	Not determined
<b>Solubility in other solvents</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
<b>Auto-ignition Temperature</b>	Not determined	<b>Dynamic Viscosity</b>	Not determined
<b>Kinematic Viscosity</b>	Not determined	<b>Explosive Properties</b>	Not determined

## Section 10 : STABILITY AND REACTIVITY

<b>Reactivity</b>	Not reactive under normal conditions
<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>Possibility of Hazardous Reactions</b>	None under normal processing
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur
<b>Conditions to Avoid</b>	Do not mix with other chemicals. Avoid extreme temperature
<b>Incompatible Materials</b>	Active metals. Metal hydrides. Materials that react with water. Aluminum. Stainless Steel
<b>Hazardous Decomposition Products</b>	Hydrogen gas. Hydrofluoric acid. Carbon monoxide. Phosphorous oxides

## Section 11 : TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Product Information

<b>Eye Contact</b>	Causes serious eye irritation
<b>Skin Contact</b>	May be harmful in contact with skin
<b>Inhalation</b>	Do not inhale
<b>Ingestion</b>	May be harmful if swallowed

Component Information :

Chemical Name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Nonylphenol Ethoxylate 127087-87-0	= 1310 mg/kg ( Rat )	No Data Available	No Data Available
Phosphoric Acid 7664-38-2	= 1530 mg/kg ( Rat )	= 2740 mg/kg ( Rabbit )	> 850 mg/m <sup>3</sup> ( Rat ) 1 h
Hydrofluoric acid 7664-39-3	No Data Available	No Data Available	= 0.79 mg/L ( Rat ) 1 h
Polyethylene glycol 25322-68-3	= 28 g/kg ( Rat ) = 22 g/kg ( Rat )	> 20 mL/kg ( Rabbit ) > 20 g/kg ( Rabbit )	No Data Available
<b>Information on physical, chemical and toxicological effects : Symptoms</b>		Please see section 4 of this SDS for symptoms	
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure : Carcinogenicity</b>		Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP	

<b>Numerical measures of toxicity</b>	Not determined
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The following values are calculated based on : chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	2,294.00 mg/kg
<b>ATEmix (dermal)</b>	2,500.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	25.05 mg/L

## Section 12 : ECOLOGICAL INFORMATION

**Ecotoxicity :** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information :**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Phosphoric Acid 7664-38-2	No Data Available	3 - 3.5: 96 h Gambusia affinis mg/L LC50	4.6: 12 h Daphnia magna mg/L EC50
Hydrofluoric acid 7664-39-3	No Data Available	660: 48 h Leuciscus idus mg/L LC50	270: 48 h Daphnia species mg/L EC50
Polyethylene glycol 25322-68-3	No Data Available	5000: 24 h Carassius auratus mg/L LC50	
<b>Persistence/Degradability</b>		Not determined	
<b>Bioaccumulation</b>		Not determined	
<b>Mobility</b>	<b>Chemical Name</b>		<b>Partition Coefficient</b>
	Hydrofluoric acid 7664-39-3		-1.4
<b>Other Adverse Effects</b>		Not determined	

## Section 13 : DISPOSAL CONSIDERATIONS

**Waste Treatment Methods :**

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations

**US EPA Waste Number :**

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrofluoric acid 7664-39-3	U134			U134

**California Hazardous Waste Status :**

Chemical Name	California Hazardous Waste Status
Phosphoric Acid 7664-38-2	Corrosive

## Section 14 : TRANSPORT INFORMATION

**Important Note :** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

## Section 15 : REGULATORY INFORMATION

**International Inventories :** Legend

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory	Complies
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List	Complies
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances	Not Applicable
ENCS	Japan Existing and New Chemical Substances	Not Applicable
IECSC	China Inventory of Existing Chemical Substances	Complies
KECL	Korean Existing and Evaluated Chemical Substances	Complies
PICCS	Philippines Inventory of Chemicals and Chemical Substances	Complies
AICS	Australian Inventory of Chemical Substances	Complies

**US Federal Regulations :**

**CERCLA :** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Phosphoric Acid 7664-38-2	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Hydrofluoric acid 7664-39-3	100 lb	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ

**SARA 313 :** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act) :** This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric Acid	5000 lb	Not Applicable	Not Applicable	X
Hydrofluoric acid	100 lb	Not Applicable	Not Applicable	X

**US State Regulations :**

**California Proposition 65 :** This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations :**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric Acid - 7664-38-2	X	X	X
Hydrofluoric acid - 7664-39-3	X	X	X

**Section 16 : OTHER INFORMATION**

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
HMIS	Health Hazards	Flammability	Physical hazards	Personal Protection
	0	0	0	Not determined

## DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. **This SDS is to be used as a guideline for safe work practices and emergency response**

**End of Safety Data Sheet**