


Section 1 : IDENTIFICATION

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

Section 2 : HAZARDS IDENTIFICATION

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

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.

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

Section 5 : FIRE FIGHTING MEASURES

Suitable Extinguishing Medium	Water spray (fog) / Carbon dioxide (CO ₂) / Dry chemical. (Foam)	Unsuitable Extinguishing Medium	Not determined
Specific Hazards Arising from the Chemical	Not determined	Hazardous Combustion Products	Hydrogen gas. Hydrofluoric acid. Carbon monoxide. Phosphorus oxides.
Explosion Data : Protective equipment and precautions for firefighters	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

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment as detailed in section 8
Environmental precautions	See Section 12 for additional Ecological Information
Methods for Containment	Prevent further leakage or spillage if safe to do so. Spilled material may be slippery
Methods for Clean-Up	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

Precautions for safe handling : Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke in work areas. Wear personal protective equipment
Conditions for safe storage, including any incompatibilities : Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store in aluminum or stainless steel container
Incompatible Materials	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 ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³ (vacated) STEL: 3 mg/m ³	IDLH: 1000 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³
Hydrofluoric acid 7664-39-3	TWA: 0.5 ppm F TWA: 2.5 mg/m ³ F S* Ceiling: 2 ppm F	TWA: 3 ppm F TWA: 2.5 mg/m ³ F TWA: 2.5 mg/m ³ dust (vacated) TWA: 3 ppm F (vacated) TWA: 2.5 mg/m ³ (vacated) STEL: 6 ppm F	IDLH: 30 ppm Ceiling: 6 ppm 15 min Ceiling: 5 mg/m ³ 15 min TWA: 3 ppm TWA: 2.5 mg/m ³

Appropriate engineering controls

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

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Appearance	Light blue liquid
Color	Light blue	Odor	No appreciable odor
Odor Threshold	Not determined		

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

Section 10 : STABILITY AND REACTIVITY

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

Section 11 : TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Product Information

Eye Contact	Causes serious eye irritation
Skin Contact	May be harmful in contact with skin
Inhalation	Do not inhale
Ingestion	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 ³ (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
Information on physical, chemical and toxicological effects : Symptoms		Please see section 4 of this SDS for symptoms	
Delayed and immediate effects as well as chronic effects from short and long-term exposure : Carcinogenicity		Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP	

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

ATEmix (oral)	2,294.00 mg/kg
ATEmix (dermal)	2,500.00 mg/kg
ATEmix (inhalation-dust/mist)	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	
Persistence/Degradability		Not determined	
Bioaccumulation		Not determined	
Mobility	Chemical Name		Partition Coefficient
	Hydrofluoric acid 7664-39-3		-1.4
Other Adverse Effects		Not determined	

Section 13 : DISPOSAL CONSIDERATIONS

Waste Treatment Methods :

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated Packaging	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	<i>United States Toxic Substances Control Act Section 8(b) Inventory</i>	Complies
DSL/NDSL	<i>Canadian Domestic Substances List/Non-Domestic Substances List</i>	Complies
EINECS/ELINCS	<i>European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances</i>	Not Applicable
ENCS	<i>Japan Existing and New Chemical Substances</i>	Not Applicable
IECSC	<i>China Inventory of Existing Chemical Substances</i>	Complies
KECL	<i>Korean Existing and Evaluated Chemical Substances</i>	Complies
PICCS	<i>Philippines Inventory of Chemicals and Chemical Substances</i>	Complies
AICS	<i>Australian Inventory of Chemical Substances</i>	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