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Section 1: Product and Company Identification

Gulf Engineering Co. LLC
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 Jefferson, LA 70121
 Business: (800) 347-4749
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Product Name: Gessco™ 240*
Generic Name: Aqueous solution of aliphatic and ethoxylated amines
Synonyms: NA
Product Description: Boiler condensate treatment
CAS # NA - blend
Date of Revision: 5/17/2006

The fourth digit of the product number designates the container size:
 Gessco™ 240-1 - 5 gallon
 Gessco™ 240-2 - 30 gallon
 Gessco™ 240-3 - 55 gallon

24-Hour Emergency Phone Number: (800) 424-9300 (CHEMTREC)

Section 2: Hazard Identification

Emergency Overview: Hazardous in case of skin contact (irritant), of eye contact (irritant). Slightly hazardous in case of skin contact (sensitizer), of ingestion, of inhalation.

OSHA Regulatory Status: This material is considered hazardous under the OSHA standard.

Potential Health Effects:

Inhalation: Due to low vapor pressure, this product is not likely to present an inhalation hazard at normal temperatures. At elevated temperatures, vapors may cause irritation of the respiratory tract.

Ingestion: Irritation to the mouth, throat, esophagus and stomach may be caused by ingestion of this material.

Skin Contact: Skin contact can cause moderate irritation.

Eye Contact: Severely irritating to eyes.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disease may be at an increased risk if exposed dermally to this material.

Target Organs: Eyes, skin, mucous membranes.

Section 3: Composition / Information On Ingredients

Component	CAS #	Weight %	OSHA PEL	ACGIH TLV
Ethoxylated tallowamine	61791-26-2	1-5	NE	NE
Octadecylamine	124-30-1	7 -10	NE	NE

Non-hazardous components may or may not be listed. Carcinogens are listed when present at 0.1% or more; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or more. This is not intended to be complete compositional disclosure. See Section 15 for applicable states right to know and other regulatory information.

Section 4: First Aid Measures

Inhalation: Inhalation is unlikely; however, if it does occur, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get medical attention. Maintain airway and give oxygen if available. Get medical attention immediately.

Ingestion Immediately give several glasses of water. Do not induce vomiting. If vomiting occurs, keep head below hips to reduce risks of aspiration. Give fluids again. Never give anything by mouth to a person who is unconscious or convulsing. If victim is unconscious, monitor pulse, breathing and airway. If breathing stops, begin artificial respiration immediately. If the heart has stopped, give cardiopulmonary resuscitation (CPR). Get medical attention immediately.

Skin: Immediately remove contaminated clothing and shoes. Wash skin with soap and plenty of water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention. Wash contaminated clothing before reuse. Thoroughly clean or destroy contaminated shoes.

Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Do not attempt to neutralize the material, and do not apply ointments or oils to the eyes at this time. Get medical attention immediately.

Note to Physicians: Treat patient symptomatically.

Section 5: Fire Fighting Measures

Fire: This product is not defined as flammable or combustible. Because of its water content it does not present a fire hazard. This product is not sensitive to static discharge. Take appropriate for surrounding fire.

Explosion: NA

Extinguishing Media: Treat as oil fire; use water, dry powder, foam or carbon dioxide extinguishing agents. Direct application of high pressure water streams may splatter burning material.

Special Precautions: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

NFPA Rating: Health - 1 Flammability - 0 Reactivity - 0 Other - NA

Section 6: Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

Section 7: Handling and Storage

Protect container against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do Not attempt to clean empty containers since residue is difficult to remove.

Section 8: Exposure Control / Personal Protection

Exposure Guidelines: CAS # 61791-26-2: OSHA PEL - None ACGIH TLV – None
CAS # 124-30-1: OSHA PEL - None ACGIH TLV – None

Personal Protective Equipment:

Skin Contact: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Contact: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Inhalation: If use conditions generate vapors, aerosols, or fumes, use a NIOSH-approved organic vapor respirator with dust, mist, and fume filters to reduce potential for inhalation exposure. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Section 9: Physical and Chemical Properties

Appearance	Creamy, white liquid	Specific Gravity (g/mL)	0.96
Odor	Ammoniacal, fishy	pH	11.5
Odor Threshold	ND	Solubility in water	Completely miscible
Melting Point	-5°C (23°F)	% Volatiles	90%
Boiling Point	106°C (221°F)	Evaporation Rate	ND
Flash Point	> 300°C	Vapor Pressure	5 mm @ 23°C
Lower Explosive Limit	NA	Vapor Density (air = 1.0)	3.0
Upper Explosive Limit	NA	Viscosity	ND
Auto-Ignition Temperature	ND	log (Part. Coeff oct-H ₂ O)	ND
Decomposition Temp	ND		

Section 10: Stability and Reactivity

Chemical Stability: Stable under ordinary conditions of use and storage

Hazardous Decomposition Products: May form carbon oxides, nitrogen oxides, hydrocarbons, amine vapors and ammonia when heated to decomposition

Hazardous Polymerization: Will not occur

Incompatibilities: Reacts with oxidizing materials.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles

Section 11: Toxicological Information

Acute Dose Effects: CAS # 61791-26-2: Ingestion : LD50 Rat. 200-2000 mg/kg

Section 12: Ecological Information

Environmental Fate: Ultimately biodegradable. >70% DOC, Modified Zahn-Wellens Test (OECD 302B).

<70% DOC, 28 days, Modified OECD Screening Test (OECD 301E). (The data are estimated from tests on similar products.)

Ecotoxicity: LC50 96 hours Oncorhynchus mykiss (fish) > 1-10 mg/l ; EC50 48 hours Daphnia magna > 1-10 mg/l (estimated from tests on similar products.)

Section 13: Disposal Considerations

As a waste, this product as sold IS NOT considered a HAZARDOUS WASTE under RCRA (29 CFR 261).

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Fatty amine ethoxylate)

DOT Hazard Class: 9

UN Number: UN3082

Packing Group: III

CERCLA Reportable Quantity (RQ): NA

Releases exceeding the reportable quantity (RQ) must be reported to the National Response Center **(800) 424-8802**.

This data provided for information only. The description shown may not apply to all shipping situations. Consult 49 CFR, or appropriate regulations to properly classify your shipment for transportation.

Section 15: Regulatory Information

TSCA Chemical Inventory: All of the chemicals in this product are listed on the TSCA Inventory.

TSCA Sec 4 Chemical Test Rule: None of the chemicals in this product are under a Chemical Test Rule.

TSCA Sec 8(d): None of the chemicals in this product are on the Health and Safety Reporting List.

TSCA Sec 12(b) Notices of Export: None of the chemicals in this product are on this list.

TSCA Significant New Use Rule (SNUR): None of the chemicals in this product are on this list.

SARA Sec 302 (EHS) TPQ: None of the chemicals in this product have a TPQ.

SARA Sec 304 (EHS) RQ: None of the chemicals in this product have a RQ.

SARA Sec 311/312: Acute – NO; Chronic – NO; Fire – NO; Release of Pressure – NO; Reactivity – NO

SARA 313 List: No chemicals in this product are reportable under Section 313 Title III and 40 CFR Part 372

CERCLA Hazardous Substances and corresponding RQs: None of the chemicals in this product are on this list.

RCRA: None of the chemicals in this product are on this list.

Clean Air Act: Hazardous Air Pollutants? NO **Class 1 Ozone Depleters?** NO **Class 2 Ozone Depleters?** NO

Clean Water Act: Hazard Substance? NO **Priority Pollutant?** NO **Toxic Pollutant?** NO

Chemical Weapons Convention: None of the chemicals in this product are on this list.

Drug Enforcement Agency (DEA) CDTA: None of the chemicals in this product are on this list.

OSHA: None of the chemicals in this product are considered Highly Hazardous by OSHA.

FDA: Federal Food, Drug and Cosmetic Act: When use situations necessitate compliance with FDA regulations, this product **is not** acceptable under 21 CFR 173.310 Boiler Water Additives

State Right-to-Know Lists: None of the chemicals in this product are found on the Right-to-Know lists of any state.

Section 16: Other Information

Abbreviations and acronyms used:

ACGIH	American Congress of Governmental Industrial Hygienists	NA	not applicable, not available
ANSI	American National Standards Institute	NIOSH	National Institute for Occupational Safety and Health
atm	atmosphere (pressure unit)	ND	not determined
BOD	biological oxygen demand	NFPA	National Fire Prevention Association
CAS	Chemical Abstracts Service	NTP	National Toxicology Program
CC	closed cup	OC	open cup
CDTA	Chemical Drug and Trafficking Act	OSHA	Occupational Safety and Health Administration
COC	Cleveland Open Cup	Part	partition
COD	chemical oxygen demand	PEL	permissible exposure limits
coeff.	coefficient	ppb	parts per billion
CFR	Code of Federal Regulations	PPE	personal protective equipment
CPR	cardio-pulmonary resuscitation	ppm	parts per million
DEA	Drug Enforcement Agency	psi	pounds per square inch
DOT	Department of Transportation	RCRA	Resource Conservation and Recovery Act
FDA	Food and Drug Administration	RQ	Reportable quantity
IARC	Internat'l Agency for Research on Cancer	RTK	Right to Know
IDLH	immediate danger to life and health	SARA	Superfund Amendments and Reauthorization Act
kg	kilogram	STEL	short-term exposure limit
L	liter	TCC	Tagliabue Closed Cup
LC50	median lethal concentration	TPQ	threshold planning quantity
LD50	median lethal dose	TQ	threshold quantity
LEL	lower explosive limit	TSCA	Toxic Substances Control Act
mg	milligram	TWA	time-weighted average
mL	milliliter	UEL	upper explosive limit

This document was prepared in accordance with 29 CFR 1910.1200 and ANSI Z400.1-2005.

Prepared by Douglas R. Chrisope on May 17, 2006.

REVISION STATEMENT: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

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