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Section 1: Product and Company Identification

Gulf Engineering Co. LLC
 611 Hill Street
 Jefferson, LA 70121
 Business: (800) 347-4749
 Technical: (504) 602-1824

Product Name: Gesscocide™ 31*
Generic Name: Aqueous solution of sodium dimethyldithiocarbamate
Synonyms: NA
Product Description: Cooling tower biocide
CAS # NA - blend
Date of Revision: 06/21/2006

The fourth digit of the product number designates the container size:
 Gesscocide™ 31-0 - 15 gallon
 Gesscocide™ 31-1 - 5 gallon
 Gesscocide™ 31-2 - 30 gallon
 Gesscocide™ 31-3 - 55 gallon
 Gesscocide™ 31-7 -330 gallon

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

Section 2: Hazard Identification

Emergency Overview: Appearance: clear light yellow-green liquid. Corrosive. Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns.

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

Potential Health Effects:

Inhalation: Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma.

Ingestion: Causes severe digestive tract burns with abdominal pain, vomiting, and possible death.

Skin Contact: Irritant, possibly corrosive if contact is prolonged. Soreness, redness, damage to skin may result.

Eye Contact: May cause irreversible eye injury. Contact with liquid is corrosive to the eyes and causes severe burns.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found..

Target Organs: Eyes, skin

Carcinogenicity: Ethylene thiourea (CAS # 96-45-7) is listed as a probable human carcinogen by the National Toxicology Program.

Section 3: Composition / Information On Ingredients

Component	CAS #	Weight %	OSHA PEL	ACGIH TLV
Sodium dimethyldithiocarbamate	128-04-1	15 – 16.6	None	None
Disodium ethylene-bisdithiocarbamate	142-59-6	15 – 16.6	None	None
Ethylene thiourea	96-45-7	< 1.0	None	None

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: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physicians: Treat symptomatically and supportively.

Section 5: Fire Fighting Measures

Fire: Aqueous solution, not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

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 - 2 Flammability - 2 Reactivity - 0 Other - NA

Section 6: Accidental Release Measures

Ventilate area of leak or spill. 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. 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! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

Section 11: Toxicological Information

Acute Dose Effects: Sodium dimethyldithiocarbamate: Oral LD 50-Rats 1.4gm/kg; Oral, mouse: LD50 = 1500 mg/kg; Oral, rabbit: LD50 = 300 mg/kg

Section 12: Ecological Information

Environmental Fate: No information found.

Ecotoxicity: No information found.

Section 13: Disposal Considerations

As a waste, this product as sold IS considered a HAZARDOUS WASTE under RCRA (29 CFR 261) due to the characteristic of corrosivity. EPA Hazardous Waste number: D002. Less than 1% of this product is composed of ethylene thiourea, a hazardous waste under RCRA (EPA Hazardous Waste number U116).

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: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

DOT Hazard Class: 8

UN Number: UN3267

Packing Group: II

Label: CORROSIVE

CERCLA Reportable Quantity (RQ): 2000 lbs (205 gal) of product due to Ethylene thiourea (RQ = 10 lbs)

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 RQ: None of the chemicals in this product have a RQ.

SARA Sec 304 TPQ: None of the chemicals in this product have a TPQ.

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

SARA 313 List: CAS # 128-04-1 and 142-59-6 are reportable under Section 313 Title III and 40 CFR Part 373

CERCLA Hazardous Substances and corresponding RQs: Ethylene thiourea (RQ=10 lbs) or 2000 lbs (205 gal) of product

RCRA: Ethylene thiourea is listed as waste U116.

Clean Air Act: Hazardous Air Pollutants? CAS #96-45-7 **Class 1 Ozone Depletors?** NO **Class 2 Ozone Depletors?** NO

Clean Water Act: Hazardous 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: NA

State Right-to-Know Lists: CAS # 128-04-1 and 142-59-6 are not found on the Right-to-Know lists of California, New Jersey, Florida, Pennsylvania, Minnesota or Massachusetts.

California Proposition 65: WARNING: This product contains Sodium dimethyldithiocarbamate, Disodium ethylene-bisdithiocarbamate and Ethylene thiourea, chemicals known to the state of California to cause cancer.

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 June 21, 2006.

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

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