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MATERIAL SAFETY DATA SHEET

Georgia Steel & Chemical Co., Inc.
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Product Information: (301) 317-5502
Emergency: (800) 296-0351
Document Number: MSDS111 Rev A
Date Revised: 3/1/2001

Section 1 - Identification

Product Number:	FG350	MSDS 1527
Product Name:	Fresh Gear®	
Product Type:	Quaternary ammonium germicidal detergent disinfectant	

Hazard Rating	
Health	3
Fire	0
Reactivity	0
Personal Protective Equipment	B

Scale:	4- Extreme
	3- High
	2- Moderate
	1- Slight
	0- Insignificant

Section 2 - HAZARDOUS COMPONENTS

Hazardous Materials (HAZMAT):			OSHA		ACGIH	
Component	CAS #	% Weight	TWA	STEL	PEL	15-min-Ceiling
Didecyl dimethyl ammonium chloride	7173-51-5	9.70	N/E	N/E	N/E	N/E
n-Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%) dimethyl benzyl ammonium chloride	8001-54-5	6.47	N/E	N/E	N/E	N/E
Inert ingredients		83.83				

Section 3 - PHYSICAL / CHEMICAL CHARACTERISTICS

Color:	*Clear Blue	Boiling Point:	212°F
State:	Liquid	Melting Point:	N/A
Odor:	Pleasant lemon odor	Solubility in Water:	Complete
pH:	7.2 (8.2 in use dilution) Same as water	Percent Volatile:	77.9 (by weight)
Vapor Density:	Same as water	Evaporation Rate:	1.0
Specific Gravity (H ₂ O = 1):	1.0	Vapor Pressure (mmHg 20°C):	Not Known

*Exposure to sunlight may alter the color of this product but it does not have any adverse affect on the disinfectant properties of this product

Section 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point:	> 200° F
Special Fire Fighting Procedures:	Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water spray.
Unusual Fire and Explosion Hazards:	Products of combustion are toxic.
Flammable limits:	Lower Level: N/A Upper Level: N/A

Section 5 - REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	None known
Materials to Avoid:	Strong oxidizing or reducing agents
Hazardous Decomposition or Byproducts:	Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines and other organic materials, and oxides of carbon and nitrogen.
Hazardous Polymerization:	May not Occur

Section 6 - HEALTH HAZARD DATA

Primary Route of exposure:	Ingestion, Skin, Eyes
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Health Effects of overexposure:	Based on information available for similar products, it is anticipated that direct contact with the product concentrate may produce severe eye and skin irritation and/or burns and possible irreversible damage. Solvent vapors or mists of product can produce irritation of the mucous membranes. Ingestion can produce immediate burning pain in the mouth, throat and abdomen; severe swelling of the larynx; skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions.		
Signs or Symptoms of Overexposure (Acute):	Eyes: Redness, tearing. Skin: Irritation seen as redness. Ingestion: Burning pain in mouth, throat, abdomen, circulatory shock, and convulsions		
Carcinogenicity:	NTP: No	IARC: No	OSHA Reg: No

Section 7 – SPILL OR LEAK PROCEDURES

Clean Up:	Map up or absorb or use solid absorbent and shovel into containers for disposal.
Disposal:	Dispose in compliance with Federal, State, and Local laws and 40 CFR. Open dumping is prohibited. Do not reuse empty container and wash hands thoroughly after using product
Handling and Storage:	Keep container closed when not in use. Keep away from food and water supplies and store below 140° F.

Section 8 – CONTROL MEASURES

Eye Protection:	Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal conditions.
Skin Protection:	Rubber or neoprene gloves
Respiratory Protection:	In processes where significant amount of mists or vapors may be generated, and proper environmental controls are absent, a NIOSH/MSHA jointly approved respirator is advised.
Ventilation Procedures:	In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

Section 9 – EMERGENCY AND FIRST AID PROCEDURES

Inhalation:	Unlikely to occur, however, in the event of inhalation move victim to fresh air. If not breathing, clean airway and start artificial respiration. If victim is having difficulty breathing, give supplemental oxygen. Seek immediate medical attention.
Skin Contact:	Wash with mild soap and water for 15 minutes. Remove contaminated clothing and launder before reuse. Seek immediate medical attention.
Eye Contact:	Flush with large amounts of water for 15 minutes lifting upper and lower lids occasionally to rinse the entire surface of the eye. Get medical attention.
Ingestion:	DO NOT INDUCE VOMITING! Immediately give 3-4 glasses of milk (if unavailable, give water). If vomiting occurs, give fluids again. Get immediate medical attention. Have a physician determine if the patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person.
Notes for Physician:	Probable mucus damage may contraindicate the use of gastric lavage. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock. Persistent convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

Section 10 – ADDITION PRECAUTIONS

DOT Shipping Name:	Consumer Commodity, ORM-D (4x1 gallon)
DOT Label:	Not required on one gallon containers.
DOT Hazard Classification:	Not required on one gallon containers.

KEEP OUT OF THE REACH OF CHILDREN.

ABBREVIATIONS:

ACGIH	= American Conference of Government Industrial Hygienists
IATA	= International Air Transport Association
ICAO	= International Civil Aviation Organization
OSHA	= Occupational Safety and Health Administration
PEL	= Permissible Exposure Limit
STEL	= Short-Term Exposure Limit
TLV	= Threshold Limit Value

The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY EXPRESSED OR IMPLIED IS GIVEN FOR THE CONTINUING ACCURACY OF THIS INFORMATION.**

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TWA	=	Time Weighted Average
WHMIS	=	Workplace Hazardous Materials Information System
NA	=	Not Applicable
NE	=	Not Established