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MATERIAL SAFETY DATA SHEET

DEL DEFOAMER G

SECTION I - PRODUCT COMPANY & IDENTIFICATION

Trade Name: GSX-1003-06 Liquid Defoamer
 Generic Description: Liquid Blend Defoamer for Petroleum Drilling
 Chemical Name: Polyether Polyol
 Manufacturer/Supplier: Grinding & Sizing Co., Inc.
 Address: 515 Industrial Boulevard, Lufkin, TX 75904
 Phone Number: 936-634-7718
 Emergency Number: 800-324-0777

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Wt. %
Proprietary Ingredients	Proprietary	100%

SECTION III - HAZARDS IDENTIFICATION

*****EMERGENCY OVERVIEW*****

*****Viscous Liquid Pungent odor Causes eye irritation*****

POTENTIAL HEALTH EFFECTS: (See Section 11 for toxicological data)

EYE: May cause slight eye irritation. May cause moderate corneal injury.

SKIN: Prolonged or repeated exposure may cause skin irritation. May cause allergic skin reaction in susceptible individuals. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INGESTION: Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

INHALATION: At room temperature, vapors are minimal due to low vapor pressure. Certain operations may generate vapor or aerosol concentrations sufficient to cause irritation. Such operations include those in which the material is heated or sprayed as an aerosol (venting of vessels/lines).

CHRONIC EFFECTS SYSTEMIC

(OTHER TARGET ORGAN) EFFECTS: In rats, repeated dietary ingestion of diethyltoluenediamine (DETDA) has caused cancer in long-term animal studies. Increased numbers of tumors in the liver, thyroid and possibly the mammary glands were observed in rats given DETDA in their diet at exaggerated doses for 2 years.

SECTION IV - FIRST AID

EYE:	Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.
SKIN:	Wash off in flowing water or shower.
INGESTION:	If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
INHALATION:	Remove to fresh air if effects occur. Consult a physician.
NOTE TO PHYSICIAN:	No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

SECTION V - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: >325°F, >163°C
Method Used: PMCC<, ASTM D93

FLAMMABILITY LIMITS

LFL: Not Determined
UFL: Not Determined

HAZARDOUS COMBUSTION PRODUCTS: Combustion may produce carbon dioxide and carbon monoxide. Unidentified organic compounds may be formed during combustion which may present a greater hazard. Other flammability information: Fire water run-off may be toxic.

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, and foam. For large scale fires, alcohol resistant foams are preferred if available. General purpose synthetic foams or protein foams may function but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain for water run-off. For large scale fires, direct water stream may cause violent frothing, but fine water spray may help control situation.

FIRE FIGHTING INSTRUCTIONS: Keep unnecessary people away; isolate hazard area and deny unnecessary entry. When using water spray, boil-over may occur when the product temperature reaches the boiling point of water (tank-type scenarios, not spills).

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus and full protective equipment

SECTION VI - ACCIDENTAL RELEASE MEASURES

PROTECT PEOPLE: Isolate and confine spill area. Spills may be a slipping hazard.

PROTECT THE ENVIRONMENT: Keep out of sewers, storm drains, surface waters and soil. Material is more dense than water and has limited water solubility. It will collect on the lowest surface.

CLEAN-UP: Spills should be collected to prevent contamination of waterways.

SECTION VII - HANDLING AND STORAGE

SPECIAL PRECAUTIONS: Materials not considered hazardous as handled in most industrial operations. Exercise reasonable care and cleanliness. Avoid skin and eye contact. Avoid breathing vapors if generated.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Use chemical goggles.

SKIN PROTECTION: Use gloves impervious to this material.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. If respiratory irritation is experienced, use an approved air-purifying respirator.

EXPOSURE GUIDELINES: Although some of the additives used in this product may have exposure guidelines, these additives are complexed with other components in the product and no exposure would be expected under normal handling conditions.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	Not applicable
VAPOR PRESS:	Nil
SOL IN WATER:	Partially soluble
SP GRAVITY:	1.03 25/25C
APPEARANCE:	Viscous Liquid
ODOR:	Mild

SECTION X - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal handling and storage conditions.

CONDITIONS TO AVOID: None know

INCOMPATIBILITY WITH OTHER MATERIALS: Strong acids and oxidizing materials. Also alkali or alkaline earth such as copper, zinc or brass.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition may produce carbon dioxide and toxic carbon monoxide. Unidentified organic compounds may be formed during decomposition.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

(See Section III for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section I).

ACUTE INGESTION: The oral LD50 for rats is between 1000 – 2000 mg/kg.

SKIN ABSORPTION: The LD50 for skin absorption in rabbits is <2000 M/KG.

MUTAGENICITY (Effects on genetic material): for diethyltoluenediamine, in vitro mutagenicity studies were negative in some cases and positive in other cases. Animal mutagenicity studies were negative.

SECTION XII - DISPOSAL CONSIDERATIONS

(See Section 14 for regulatory information)

DISPOSAL: Any disposal practice must be in compliance with all federal, state/provincial, and local laws and regulations.
State/provincial and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations.. Regulations may also vary in different locations.

Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. None of these waste management options should be considered arranging for disposal.

Product as sold is not a RCRA hazardous waste when disposed.

Do not allow into any sewers, on the ground, or into any body of water.

Refer to 40 CFR Section 261, and/or any other appropriate federal, state, provincial, or local requirements for proper classification information.

SECTION XIII – TRANSPORT INFORMATION

Department of Transportation (D.O.T.): Not Restricted.

SECTION XIV - REGULATORY INFORMATION

(Not meant to be all inclusive; selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective data shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS:

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title 111) and is considered, under applicable definitions, to meet the following categories:

NOT TO HAVE MET ANY HAZARD CATEGORY

SECTION XV - OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health	1
Flammability	1
Reactivity	0

The information herein is furnished without warranty of any kind. Employers should use this information only as supplemental to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. DELTA DRILLING PRODUCTS & SERVICES, LLC assumes no responsibility and denies all liability for any loss, damage or expense connected with the customers methods of handling, storage, use and disposal of this product.