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March 11, 1985

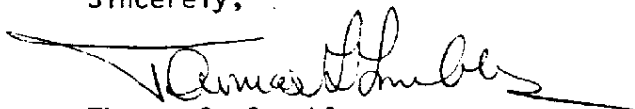
Mr. Leo H. Waasdorp
DeSoto Inc., Sellers Division
1320 Sams Avenue
P.O. Box 23523
Harahan, LA 70183

Dear Mr. Waasdorp:

Enclosed is a Material Safety Data Sheet for Vista Chemical By-Product Alcohol Ethoxylate. As you are aware, this material is a mixture of ethoxylated alcohols and free homolog alcohols. The individual constituent concentrations will be different for each shipment, therefore, they cannot be specifically listed on the Material Data Sheets.

However, the handling and safety precaution instructions on the MSDS are applicable to expected product constituents. Please contact me if you have further questions regarding the safety and health aspects of this product.

Sincerely,



Thomas G. Grumbles
Director
Industrial Hygiene &
Product Safety

cc: John P. Stokes
Sid Pitts

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Vista Chemical Company
P.O. Box 19029
Houston, TX 77224

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

MANUFACTURER'S NAME	VISTA Chemical Company
ADDRESS	P.O. Box 727, Westlake, LA 70669
TRADE NAME	By-Product Alcohol Ethoxylate
SYNONYMS	
CAS NUMBER	
REGULAR TELEPHONE NO. (318) 491-5403	EMERGENCY TELEPHONE NO. (318) 491-5142

2. HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	%	HAZARD DATA
Mixture of C ₈ and higher alcohol ethoxylates and free homolog alcohols in the same range.		May contain small amounts of combustible alcohols. See Section 5.

3. PHYSICAL DATA

BOILING POINT (°F)	IBP approx 240°F	SPECIFIC GRAVITY (H ₂ O = 1)	
VAPOR PRESSURE (mm Hg.)		MELTING POINT	
SOLUBILITY IN WATER	Slight	VAPOR DENSITY	
APPEARANCE AND ODOR	Clear, colorless liquid with sweet, pungent odor.		

4. FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD)	Greater than 200°F (PM)	AUTOIGNITION TEMPERATURE	Unknown
FLAMMABLE LIMITS IN AIR, % BY VOL.	LOWER	Unknown	UPPER Unknown
MEDIA	Water spray; carbon dioxide; dry chemical; foam.		
SPECIAL FIRE FIGHTING PROCEDURES	Cool exposed equipment with water spray. Self-contained breathing apparatus should be worn if fighting fires in confined spaces.		
UNUSUAL FIRE AND EXPLOSION HAZARD	None expected.		

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HAZARD INFORMATION

FIRST AID

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- EYES:** Flush eyes with large amounts of water for at least 15 minutes. If irritation persists, seek medical aid.
- SKIN:** Flush with water, then wash affected area with mild soap and water.
- INHALATION:** Remove to fresh air. If breathing has stopped, administer artificial respiration or oxygen. Seek medical aid.
- INGESTION:** **Do Not Induce Vomiting.** If large amounts are ingested, gastric lavage with large amounts of water or 5 percent sodium bicarbonate by qualified persons. **Seek medical aid.**

NATURE OF HAZARD

- EYES:** Irritation may occur with exposure to concentrated vapors. Liquid is contact irritant. May cause corneal inflammation.
- SKIN:** Repeated or prolonged contact can cause reddening of the skin, scaling, and dermatitis.
- INHALATION:** This material is a negligible hazard due to its low volatility. If vapor is present in high concentrations, irritation to upper respiratory tract may occur.
- INGESTION:** Low order of toxicity. No hazard by this route in normal use.
- EFFECTS OF OVEREXPOSURE:**
- ACUTE OVEREXPOSURE:** Irritation of contacted areas.
- CHRONIC OVEREXPOSURE:** Unknown.

THRESHOLD LIMIT VALUE (TLV)

None established.

TOXICITY DATA

- This specific product has not been tested. The statements below are based on testing data from individual components of the product.
- SKIN CONTACT:** Components are relatively non-toxic by skin absorption. Rabbit Primary Irritation Index as high as 5.5(max. possible score 8.0) for some components.
- EYE CONTACT:** Individual components can cause moderate to severe eye irritation.
- INHALATION:** Relatively non-toxic by this exposure route. Components in the C_g range showed no deaths in test animals with exposures exceeding 1.0 mg/l for one hour. All others less toxic.
- INGESTION:** Slight to moderate toxicity. Oral LD₅₀ range for 3.0 g/kg to 35 g/kg.

SPECIAL PRECAUTIONS: Avoid Eye Contact.

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6 REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

High temperatures.

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INCOMPATIBILITY

Can react with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS

None.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

Should not occur.

7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Eliminate open flames. Contain the spill.

NEUTRALIZING CHEMICALS

WASTE DISPOSAL METHOD

May be picked up mechanically or with a solid sorbent and sent to an approved landfill or incinerated in accordance with federal, state, and local regulations.

8 SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

Mechanical ventilation is recommended if handling material in an enclosed space or at elevated temperatures. Trace amounts of ethylene oxide may be present in the product and could accumulate in vapor spaces of storage or transport vessels. The OSHA PEL for ethylene oxide is 1 ppm.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY (SPECIFY IN DETAIL):

If needed, NIOSH approved organic vapor respirators should be worn.

EYE: Chemical goggles or full-face shield to protect from splash.

GLOVES: Rubber or other impervious material to avoid repeated or prolonged skin contact.

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Other impervious clothing as needed to avoid repeated or prolonged skin contact.

SPECIAL PRECAUTIONS**HAZARD CLASSIFICATION INFORMATION****DRAFT**

IMO HAZARD CLASS AND NUMBER Not applicable	US DOT HAZARD CLASS Non-hazardous
UN NUMBER Not applicable	US DOT IDENTIFICATION NUMBER

TRANSPORTATION AND STORAGE

USUAL SHIPPING CONTAINERS Tank Cars Tank Trucks	ELECTROSTATIC ACCUMULATION HAZARD Recommend grounding transfer equipment.
	STORAGE/TRANSPORT PRESSURE Ambient
STORAGE TRANSPORT TEMPERATURE Ambient	LOADING/UNLOADING TEMPERATURE Ambient
	VISCOSITY AT LOADING/ UNLOADING TEMPERATURE

HANDLING AND STORAGE MATERIALS AND COATINGS

SUITABLE	UNSUITABLE
Carbon Steel—If moisture control is suitable Recommend Baked Phenolic Coating Stainless Steel Aluminum	Zinc Galvanized

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