



U.S. Department
of Transportation

Research and
Special Programs
Administration

400 Seventh Street S.W.
Washington D.C. 20590

June 23, 1983

Ms. Charleye Sells
Office Manager
Dixie Chemical Company
P.O. Box 13410
Houston, Texas 77019

RECEIVED

OFFICE OF SPECIAL PROGRAMS

JUN 23 1983

Dear Ms. Sells:

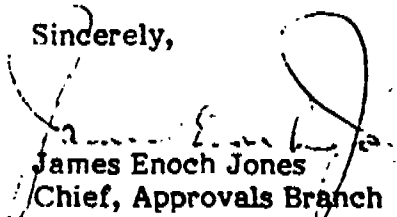
Based upon your submissions of September 21, 1981 and August 11, 1982 and under provisions of Section 173.21(b)(2) of Title 49, Code of Federal Regulations (49 CFR), Dixie Chemical Company is issued special approval number SA-810102 for the shipment of 2, 3 - Epoxy - 1 - propanol (Glycidol) as Oxidizing material, n.o.s.. This approval does not provide relief from the requirements of any regulations and shall remain valid until terminated by the Department, subject to the following conditions:

1. All packagings must bear an oxidizer label and must be separated from corrosive materials.
2. Outside containers are limited to DOT 6D, 15A, 15B, and 12B..
3. All materials must be loaded at a temperature of 30°F or less and be maintained at that temperature while in transportation.
4. Transportation is authorized in trailers, containers or vans capable of maintaining the temperature required in condition 3.
5. Drivers must be familiar with points along the transportation route at which repairs can be made to refrigeration equipment or at which dry ice can be obtained.
6. The pH factor of the material must be so controlled that the rate of decrease of Glycidol shall not exceed 2 percent per day at 140°F.
7. A copy of this approval must accompany each shipment and SA-810102 must be marked on all shipping papers.
8. The Approvals Branch, in addition to the requirements of 49 CFR Sections 171.15 and 171.16, must be notified of any incident involving polymerization or loss of contents of material shipped under this approval.
9. The Approvals Branch must be advised annually, within 30 days of the end of the calendar year, of the shipping experience of material covered by this approval.

SL 049780

Any questions relative to this approval should be addressed to the Approvals Branch and refer to SA-810102.

Sincerely,


James Enoch Jones
Chief, Approvals Branch
Exemption and Approvals Division
Office of Hazardous Materials
Regulation
Materials Transportation Bureau

SL 049781



DIXIE CHEMICAL COMPANY

3635 W. DALLAS AT SHEPHERD

P. O. BOX 13410

HOUSTON, TEXAS 77219

(713) 526-2604

MATERIAL SAFETY DATA SHEET

Identification

Name: 2-3-epoxy-1-propanol

Chemical Family: Epoxide

Synonyms: Glycidol, GDL

CAS Name & Registry #: 556-52-5

Formula: $C_3H_6O_2$

Product Information Phone #: 713/526-2604

Emergency Phone #: 713/474-3271

Physical Data

Boiling Point °C: 161

Specific Gravity: 1.114 @ 25°C 77°F

Vapor Pressure (mm Hg): 3 @ 66°C

Melting Point °C: -54°C

Vapor Density (Air = 1): 1

Percent Volatile by Volume (%): 100%

Solubility in Water: Complete

Evaporation Rate:
() = 1) N/A

Appearance and Odor: Clear and odorless liquid

Fire and Explosion Data

Flash Point °C (Method Used): 82 °C TOC

Auto Ignition Temperature °C: 415

Flammable Limits in Air (% by Vol.): Unknown

Lower:

Upper:

Fire and Explosion Hazards: avoid contact with acids, bases, or metal halides

Extinguishing Media: Water or chemical foam

Special Firefighting Instructions: If possible immediately isolate from flame

The information contained in this material safety data sheet is based on technical data that Dixie Chemical Company believes to be reliable and is provided to Dixie Chemical Company Customers at no cost. It is intended for use by persons having technical skill and at their own discretion and risk. Dixie Chemical Company will assume no liability in connection with any use of this information and no warranties, expressed or implied, are made with regards to this information since conditions of use are outside our control.

DATE: SL 049782

NE = NOT ESTABLISHED NA = NOT APPLICABLE AI = ACTIVE INGREDIENT

Hazardous Reactivity Data

Instability: unstable if pH (6 or) 8

Incompatibility: Avoid contact with strong acids or alkalis and metal halides

Decomposition: Glycerine and/or poly glycidol products

Polymerization: May occur

Health-Hazard Data

Threshold Limit Value: LD 50 orally in rats: 0.85 g/kg

Effects of Overexposure: moderately irritating to skin, mucous membranes. Can cause stimulation of central nervous system followed by depression. Absorbed through skin.

Safety Precautions and First Aid: Wash eyes and skin with large amounts of water immediately. Remove contaminated clothing and shoes. Consult a physician.

Personal Protective Equipment: Impervious gloves, chemical goggles. Wear protective clothing as required to prevent skin contact.

Disposal Information

Releases or Spills: contain and recover

Waste Disposal Method: Dispose of by incineration.

MSDS page 3: GDL, cont'd.

Shipping Information

DOT Hazard Class: Oxidizer

IMCO Class: 5.1 page 5046,
Oxidizing agent

DOT Shipping Name: Oxidizer, N.O.S.

UN No.: UN 1479

NA No.:

Reportable Quantity (RQ): N/A

Shipping Containers: Drums= DOT 60, poly pak

Storage Conditions: Store at 30°F or below to prevent polymerization. Keep away from strong aqueous caustic soda, strong sulfuric acid and anhydrous metal halides such as stannic and ferric chlorides.



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SL 049785

DATE: 06/04/85

NE = NOT ESTABLISHED NA = NOT APPLICABLE AI = ACTIVE INGREDIENT

MSDS page 3: GDL, cont'd.

Shipping Information

DOT Hazard Class: Oxidizer

IMCO Class: 5.1 page 5046, Oxidizing Agent

DOT Shipping Name: Oxidizer, N.O.S.

UN No.: UN 1479

NA No.:

Reportable Quantity (RQ): N/A

Shipping Containers: Drums = DOT 6D, poly pak

Storage Conditions: Store at 30 degrees F or below to prevent polymerization. Keep away from strong aqueous caustic soda, strong sulfuric acid and anhydrous metal halides such as stannic and ferric chlorides.

06/04/85

SL 049786