

CODING FORMS FOR SRC INDEXING

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Submitting Organization	ALKARIL CHEMICALS INC		
Contractor			
Document Title	INITIAL SUBMISSION: MATERIAL SAFETY DATA SHEET ON ALKAQUAT DAET-90 WITH COVER LETTER DATED 01/06/88		
Chemical Category	ALKAQUAT DAET-90		

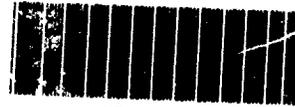


ALKARIL CHEMICALS, INC.

FYI-0794-0011K1



FYI-94-001114
INIT 07/26/94



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January 6, 1988

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Ms. Roberta Wedge
Staff Scientist
Dynamic Corporation
11140 Rockville Pike
Rockville, MD 20852

Dear Ms. Wedge:

Please find enclosed a Material Safety Data Sheet and Technical Data Sheet on Alkaril Alkaquat DAET-90 per your letter request of December 23, 1987. The balance of the information you requested is considered Confidential Business Information. I am preparing this information to be forwarded to Dr. Brink directly.

Please advise if I can be of any further assistance to you.

Sincerely,

Robert M. McCutchen, Jr.
Product Safety Manager

RMM:ld

Encls

cc: Dr. Robert Brink

Contains No CBI

MATERIAL SAFETY DATA SHEET



ALKARIL CHEMICALS

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PRODUCT IDENTIFICATION

ALKARIL NAME: ALKAQUAT DAET-90 MSDS NO: 2451-01
CHEMICAL NAME/SYNONYM: COMPLEX DI-TALLOW QUATERNARY SULFATE
CHEMICAL FAMILY: QUATERNARY AMMONIUM COMPOUND FORMULA: N.A.
C.A.S. NUMBER: MIXTURE D.O.T. HAZARD CLASS ID. NO: UN 1993
D.O.T. SHIPPING NAME: FLAMMABLE LIQUID, NOS
LABEL REQUIREMENTS: DOT: FLAMMABLE LIQUID UN 1993 HMIS: 2-3-0-D ALKARIL: AL06
N.A. NOT APPLICABLE

WARNINGS AND PRECAUTIONS

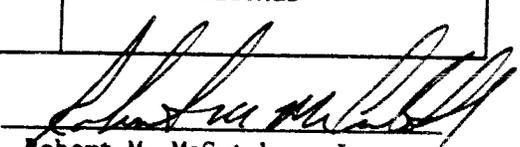
WARNING! FLAMMABLE. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. THIS PRODUCT CAN CAUSE EYE AND SKIN IRRITATION. AVOID CONTACT WITH EYES AND SKIN!

HAZARDOUS INGREDIENTS

INGREDIENT	C.A.S. NO.	%	HAZARD	EXPOSURE LIMITS
ISOPROPANOL	67-63-0	10	FLAMMABLE IRRITANT	400ppm (ACGIH) TWA 980mg/m ³ (ACGIH) TWA
QUATERNARY SULFATE	65098-88-6	90	IRRITANT	NOT ESTABLISHED

ISSUE DATE: September 15, 1985

REVISION DATE: NONE


Robert M. McCutchen, Jr.

PRODUCT SAFETY MANAGER

MSDS NUMBER: 2451-01

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EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush immediately with water for 15 minutes. Get medical aid immediately.

SKIN CONTACT: Remove contaminated clothing. Wash thoroughly with soap and water.

INHALATION: Remove to fresh air. Insure breathing. Get medical aid immediately.

INGESTION: Get medical aid immediately.

PHYSICAL DATA

APPEARANCE: Pale yellow paste

BOILING POINT: 180°F MELTING POINT: N.D. pH (5%) 4.0 - 7.0

SPECIFIC GRAVITY: 0.98 gm/ml @ 25°C VAPOR PRESSURE: N.D.

SOLUBILITY IN WATER: Dispersible

OTHER: None

FIRE AND EXPLOSION

FLASH POINT: 86°F METHOD: PMCC

NFPA DESIGNATION: HEALTH: 2 FIRE: 3 REACTIVITY: 0

FLAMMABLE LIMITS: LEL: N.D. UEL: N.D.

EXTINGUISHING MEDIA: Carbon Dioxide, Foam, Dry Chemicals

SPECIAL FIREFIGHTING PROCEDURES: Use NIOSH approved respirators and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Warning! Flammable liquid

OCCUPATIONAL CONTROL

EYE PROTECTION: Full face shield. Eye bath available.

SKIN PROTECTION: Gloves and apron. Safety shower available.

RESPIRATORY PROTECTION: In high concentrations use self contained breathing apparatus.

VENTILATION: General (mechanical) room ventilation normally adequate at environmental temperatures.

N.D. Not Determined

HEALTH DATA

HUMAN EXPOSURE: Primary routes of exposure are eyes skin and inhalation.

ACUTE OVEREXPOSURE: EYE: Will cause irritation. SKIN: Repeated or prolonged contact may cause irritation. INHALATION: High vapor concentrations may cause headache, dizziness or nausea. CHRONIC OVEREXPOSURE: No effects currently known.

TOXICITY: It has not been determined if exposure to this product aggravates any existing medical condition or if there are any target organ effects.

REACTIVITY

STABILITY: Stable **HAZARDOUS POLYMERIZATION:** Not occur

MATERIALS TO AVOID: Strong oxidizers

CONDITIONS TO AVOID: Excessive heat

HAZARDOUS DECOMPOSITION PRODUCTS: (Thermal) CO, CO₂, SO_x, NO_x

SPILL OR LEAK PROCEDURES

ACTION IN CASE OF RELEASE OR SPILL: Remove all sources of ignition. Soak up with absorbant material and transfer to closed containers for disposal. Wash area with detergent and water.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal EPA regualtions.

This material safety data sheet has been prepared to comply with Title 29 Code of Federal Regulations, Part 1900.1200, OSHA Hazard Communication Standard.

The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical data that Alkaryl Chemicals, Inc. believes to be reliable. It is intended for use by technical personnel and at their own discretion and risk. Because conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.



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ALKAQUAT DAET-90

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ALKAQUAT DAET-90

ALKAQUAT DAET-90 is a complex di-tallow quaternary sulfate concentrate designed for the preparation of fabric softeners for both home and commercial laundry use.

SPECIFICATIONS

Solids Content, %	89 - 91
Moisture, % max.	2
pH (as is)	4.0 - 7.0

TYPICAL CHARACTERISTICS

Type	Cationic
Appearance	Pale yellow paste
Specific Gravity	0.98 gm/ml @ 25°C

APPLICATIONS & GENERAL PROPERTIES

ALKAQUAT DAET-90 is a rinse cycle fabric softener base for both home and commercial laundry use: ALKAQUAT DAET-90 exhibits good softening and excellent antistat properties. In addition, it imparts the following properties:

- 1) Wide dispersion stability range (2 -20% active)
- 2) Ease of formulating (dispersible in cool water)
- 3) Excellent re-wet characteristics (no build-up of water repellent film)

ALKAQUAT DAET-90 is used in textile lubricant and softener formulations.

ALKAQUAT DAET-90 has application as a debonding agent for cellulose fibers.

MANUFACTURERS OF CHEMICAL SPECIALTIES FOR INDUSTRY

The information and suggestions given are drawn from data we believe to be reliable, but in all cases the user should check and confirm the suggestion and results in his own use before proceeding further. None of the suggestions or recommendations constitute freedom from any patents that may be existent in the field or be issued.