

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS PREPARED BY: Environmental Health Dept.-Grace Construction Products
 W.R.Grace & Co.-Conn. Grace Canada, Inc.
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MSDS Number: D-05539 000001 Cancels MSDS # D-05488, Date: 09/18/2000
 D-05500

Trade Names and Synonyms: DaraFill® (Eggs, Pails, Drums)
 (SEE SECTION 16 FOR ADDITIONAL
 PRODUCT IDENTIFICATION)

Chemical Names and Family: Fatty Acid Esther

Product Use: Additive for Cementitious Mixtures
Formula: Proprietary

CAS# (Chemical Abstract Service): PROPRIETARY

SECTION 2 - HAZARDOUS INGREDIENT AND MAJOR COMPONENT INFORMATION

(See Section 11 for Complete Chemical Names)

INGREDIENT:	Max. % By Wt.	EXPOSURE LIMITS		
		OSHA	Exposure Limits ACGIH	OTHER
FATTY ALKANOLAMIDE CAS# PROPRIETARY	100.00	None Established	None Established	None Established
DIETHANOLAMINE CAS# 111-42-2	7.00	15 mg/m ³ - TWA (Vacated)	2 mg/m ³ - TWA	NIOSH: 15 mg/m ³ - TWA

EXPOSURE GUIDELINES - CANADA

Employers should check with provincial regulatory agencies for exposure guidelines, which may vary locally.

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:**Warning Statements:**

WARNING! CONTACT WITH LIQUID CAUSES SEVERE EYE IRRITATION.

- ... Contains Fatty acid ester CAS# PROPRIETARY, NJ TSNR #8010041-5001P including Diethanolamine CAS# 111-42-2.
- ... Skin contact may cause irritation resulting in redness.
- ... Based on laboratory animal studies, chronic skin exposure may cause tumorigenic effects to the liver and kidneys.
- ... Irritating to the linings of the mouth, throat and stomach if swallowed.
- ... Read and understand all Health and Safety information on the product Label and Material Safety Data Sheet before use.

NPCA-HMIS Hazard Index:

- o Health: 2
- o Flammability: 1
- o Reactivity: 0
- o Personal Protection: B
(See Section 8)

Potential Health Effects**Routes of Exposure:****Inhalation:**

Inhalation of vapor or mist may cause irritation to the upper respiratory tract causing sore throat, coughing or breathing difficulties.

Skin and Eye:

EYE contact will cause severe irritation resulting in burning and tearing. SKIN contact may cause irritation resulting in redness. Preliminary findings from chronic Diethanolamine skin painting studies include liver and kidney tumors in mice. The significance of these findings are being evaluated by the National Toxicology Program (NTP).

Ingestion:

May irritate the linings of the mouth, throat and stomach causing pain, nausea and vomiting.

Carcinogenicity Information:

Not Applicable

SECTION 4 - FIRST AID MEASURES

EYE: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Do not rub eyes. Get medical attention immediately.

SKIN: Wash skin with soap and water. If irritation develops and persists, call a physician. Wash contaminated clothes before reuse.

INHALATION: If irritation due to inhalation develops, get fresh air. If symptoms persist, consult a physician.

INGESTION: If swallowed, do not induce vomiting. Give large quantities of water to drink for dilution effect. Rinse mouth with water. Call physician immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 300°F (149°C)

Method Used: C. O. C.

LEL N/A

UEL N/A

N.F.P.A. Rating: H-1 F-1 R-0

Extinguishing Media

Use dry chemical, foam, Carbon dioxide or water.

Special Fire Fighting Procedures

Use water to keep fire exposed containers cool. Firefighters should wear self-contained breathing apparatus in the positive-pressure mode with a full face piece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

Unusual Fire and Explosion Hazards

None Known

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Prevent product from entering drinking water supplies or streams. Observing all precautions, absorb with an inert, noncombustible material and place into closed containers for disposal or placement into a concrete batch.

According to EPA guidelines, spills of this product are not reportable. However, spill reporting requirements and reportable quantities vary by region. Consult Sections 6, 13 and 15 of the MSDS and all applicable state and local regulations.

SECTION 7 - HANDLING AND STORAGE INFORMATION

Precautionary Measures:

- ... Avoid contact of liquid with eyes and skin.
- ... Wear impervious gloves and eye protection.
- ... Wash skin thoroughly if contact occurs.
- ... FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation:

Local Exhaust: Not generally required.
Mechanical: Not generally required.
Special: Not applicable
Other: Not applicable

Respiratory Protection:

Respiratory protection is not expected to be required. If specific use causes irritation, a NIOSH-approved organic vapor respirator (Type TC-23C-XXX) is recommended.

Skin Protection:

Rubber or other impervious gloves should be worn if skin contact with the liquid is possible.

Eye Protection:

If it is possible for the liquid to contact the eyes, chemical safety goggles should be worn.

Other Protective Clothing or Equipment:

Not generally required.

Work/Hygienic Practices:

Observe above precautions and practice good personal hygiene.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<u>Boiling Point:</u>	Not Determined	<u>Specific Gravity</u> (H ₂ O=1)	~1.00
<u>Vapor Pressure</u> (mm Hg.)	Not Determined	<u>% Volatiles</u>	None
<u>Vapor Density</u> (AIR = 1)	Greater than 1	<u>Evaporation Rate</u> (Butyl Acetate = 1)	Not Determined
<u>Solubility in Water:</u>	Soluble	<u>pH</u>	~10
<u>Bulk Density</u> (#/cu. ft):	Not Applicable		
<u>Appearance and Odor:</u>	Yellow liquid. No distinct odor.		
<u>Odor Threshold:</u>	Not Established		

SECTION 10 - STABILITY AND REACTIVITY

Stable under normal conditions (yes or no): YES

Conditions or Materials to avoid (which may react or cause instability):

Keep away from heat and flames. Avoid contact with oxidizing materials.

Hazardous Decomposition or Byproducts:

Decomposition may produce oxides of carbon and nitrogen.

Hazardous Polymerization:

Will not occur

Conditions to Avoid:

Not Applicable

SECTION 11 - TOXICOLOGICAL INFORMATION

INGREDIENT

(Chemical Name,

CAS#, & Common Name)

Fatty Acid Esther

CAS# PROPRIETARY

containing

Diethanolamine

CAS# 111-42-2

TOXICITY DATA: LD₅₀ & LC₅₀

(See Section 2 for Exposure Limits)

LD₅₀ (oral, rat) 6,500 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

None Available At This Time.

SECTION 13 - DISPOSAL CONSIDERATIONS

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

Waste of this product is not defined as hazardous according to EPA RCRA regulations (40 CFR § 261.3).

SECTION 14 - TRANSPORT INFORMATION

Transportation Hazard Classification

PROPER SHIPPING: Not Applicable

NAME

HAZARD CLASS: Nonhazardous

IDENTIFICATION #: Not Applicable

LABEL(s) REQUIRED: Not Applicable

Surface Freight Classification:

Concrete or Masonry Plasticizer
& Water Reducing Compound

SECTION 15 - REGULATORY INFORMATION (Not Meant To Be All Inclusive
Selected Regulations Represented)

SARA Title III Reporting Information

Tier I & II Hazard Categories: IMMEDIATE (ACUTE) HEALTH

Contains Extremely Hazardous-SARA III Section 302 Ingredient: NO

Comments:

Contains Toxic Chemical Release-SARA III Section 313 Ingredient: YES
Comments: Contains Diethanolamine at 7.0% max.: REPORTABLE

Other Government Reporting Requirements:**CHEMICAL INVENTORY CERTIFICATION:****For U.S. Products ONLY**

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory.

For Canadian Products ONLY

All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL).

INTERNATIONAL CHEMICAL INVENTORY STATUS:

All ingredients are included on the necessary lists in Europe, Australia, Japan, Korea and Philippines.

CERCLA/SARA SECTION 304 HAZARDOUS SUBSTANCES:

Diethanolamine is listed by the US EPA as a hazardous substance with a Reportable Quantity (RQ) of 100 lbs. A spill of 175 gallons released to the environment would exceed the EPA RQ. If a release of this magnitude should occur, contact the Grace Construction Products EHS Department for more information at 617-876-1400 or report the release directly to the National Response Center at 800-424-8802.

STATE SPECIFIC EMERGENCY RELEASE REQUIREMENTS:

Some state regulated reportable quantity thresholds may be more stringent than the federal requirements noted above. Due to the complex and dynamic nature of these regulations, it is not possible to provide a complete summary. You should contact the Environmental Compliance Coordinator in your company or the appropriate Department of Environmental Protection if product is released to land or water.

CALIFORNIA PROPOSITION 65 INFORMATION:

This product is not subject to Proposition 65 Requirements.

WHMIS CLASS: D-2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR). This MSDS contains all the information required by the CPR.

(Not Meant To Be All Inclusive)

SECTION 15 - REGULATORY INFORMATION (Cont'd) Selected Regulations Represented

Nonhazardous Ingredient Disclosure:
Not Applicable

SECTION 16 - OTHER INFORMATION

The information contained in this Material Safety Data Sheet is applicable to the following products:

DaraFill® (Eggs, Pails, Drums)

"THE DATA INCLUDED HEREIN ARE PRESENTED IN ACCORDANCE WITH VARIOUS ENVIRONMENT, HEALTH AND SAFETY REGULATIONS. IT IS THE RESPONSIBILITY OF A RECIPIENT OF THIS DATA TO REMAIN CURRENTLY INFORMED ON CHEMICAL HAZARD INFORMATION, TO DESIGN AND UPDATE ITS OWN PROGRAM AND TO COMPLY WITH ALL NATIONAL, FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS APPLICABLE TO SAFETY, OCCUPATIONAL HEALTH, RIGHT-TO-KNOW AND ENVIRONMENTAL PROTECTION."