

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MSDS PREPARED BY: Environmental Health Dept.-Grace Construction Products

W.R.Grace &amp; Co.-Conn.

Grace Canada, Inc.

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Telephone Number for Information and Emergency Response

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MSDS Number: MP-90092 000001 Cancels MSDS # MP-90081 Date: 06/28/2000

**SECTION 1 - PRODUCT IDENTIFICATION**Trade Names and Synonyms:  
(SEE SECTION 16 FOR ADDITIONAL  
PRODUCT IDENTIFICATION)GRACE MASONRY PLASTICIZING &  
WETTING AGENTS

Chemical Names and Family:

Aqueous Solution of Amine, Surfactant  
& Sulfonate

Product Use:

Concrete and Masonry Additive

Formula:

MIXTURE

CAS# (Chemical Abstract Service):

MIXTURE-NA

**SECTION 2 - HAZARDOUS INGREDIENT AND MAJOR COMPONENT INFORMATION**

(See Section 11 for Complete Chemical Names)

**EXPOSURE LIMITS**

INGREDIENT:	Max.% By Wt.	Exposure Limits		
		OSHA	ACGIH	OTHER
BENZENESULFONIC ACID DODECYL-SODIUM SALT CAS# 25155-30-0	30.00	None Established	None Established	None Established
DIETHANOLAMINE CAS# 111-42-2	3.00	3 ppm - TWA (15 mg/m3)	3 ppm - TWA (13 mg/m3 )	NIOSH-REL 3 ppm
DIMETHOXANE CAS# 828-00-2	0.20	None Established	None Established	None Established
TRIETHANOLAMINE CAS# 102-71-6	5.00	None Established	5.0 ppm - TWA	None Established

**EXPOSURE GUIDELINES - CANADA**

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

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**SECTION 3 - HAZARDS IDENTIFICATION**

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**Emergency Overview:****Warning Statements:**

CAUTION! CAUSES SKIN, EYE AND RESPIRATORY IRRITATION.

- ... Contains one or more of the following ingredients:
  - Benzenesulfonic acid dodecyl-sodium salt CAS# 25155-30-0,
  - Diethanolamine CAS# 111-42-2, Triethanolamine CAS# 102-71-6,
  - Benzenesulfonic acid, dodecyl compound with Triethanolamine and Diethanolamine CAS# 27323-41-7, 26545-53-9, Dimethoxane CAS# 828-00-2, Fatty alkanolamide CAS# 68603-42-9, Alkyl phenol ethoxylate surfactant CAS# 9016-45-9 and Water CAS# 7732-18-5.
- ... Skin contact may cause irritation or sensitization.
- ... Inhalation of mist may cause respiratory irritation.
- ... Overexposure by ingestion may cause liver and kidney damage and create risk of cancer.
- ... 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:**

Not expected to cause any adverse effects under normal use conditions. However, product applications which generate a spray mist may cause respiratory irritation resulting in coughing and breathing difficulties.

**Skin and Eye:**

EYE contact will cause irritation resulting in burning and tearing. SKIN contact may cause irritation resulting in redness. Skin sensitization may occur in a small portion of exposed persons. Repeated contact can result in an allergic reaction such as rash or hives.

**Ingestion:**

May irritate the linings of the mouth, throat and stomach causing pain, nausea and vomiting. Large amounts of this product may be harmful based on Dimethoxane content. Dimethoxane is considered moderately toxic although its specific effects on humans are unknown. Liver and kidney damage from chronic overexposure to some ingredients has been demonstrated in laboratory animals.

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**SECTION 3 - HAZARDS IDENTIFICATION (Cont'd)**

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Carcinogenicity Information:

This product may contain a small amount (0.2% max.) of Dimethoxane as a preservative. Dimethoxane is listed by IARC as a Group 3 Agent which is "Not classifiable As To Its carcinogenicity To Humans". However, Dimethoxane was shown to be carcinogenic in male rats after its oral administration (IARC) and there was equivocal evidence of carcinogenic activity when fed to male mice (NTP).

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**SECTION 4 - FIRST AID MEASURES**

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**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.

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**SECTION 5 - FIRE FIGHTING MEASURES**

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Flash Point: >100°C/212°F

Flammable Limits:

Method Used: Estimated (aqueous solution)

LEL N/A

UEL N/A

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

Extinguishing Media

Product is an aqueous solution and unlikely to burn until all water is evaporated. In case of fire, use water, dry chemical, Carbon dioxide or "alcohol" foam.

Special Fire Fighting Procedures

Not Applicable

Unusual Fire and Explosion Hazards

Not Applicable

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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Prevent product from entering drinking water supplies or streams. Observing the precautions noted above, collect liquid or absorb liquid with an inert, noncombustible material and remove for disposal.

Spill reporting requirements and reportable quantities vary by region. In case of any spill or release, consult Section 6, 13 and 15 of the MSDS and all applicable state and local regulations.

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**SECTION 7 - HANDLING AND STORAGE INFORMATION**

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Precautionary Measures:

- ... Avoid contact with eyes, skin and clothing.
- ... Wash thoroughly after handling.
- ... Avoid breathing vapors or mist.
- ... Keep containers closed when not in use.
- ... FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Ventilation:

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

Respiratory Protection:

Respirators are not generally required. However, if specific use causes irritation, an approved organic vapor respirator with a prefilter for mist is recommended.

Skin Protection:

Impervious rubber or synthetic gloves recommended to guard against prolonged or repeated contact.

Eye Protection:

Goggles recommended if splashing is likely.

Other Protective Clothing or Equipment:

Wear appropriate clothing to prevent skin contact.

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont'd)**

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Work/Hygienic Practices:

Do not formulate with Nitrates. Secondary and tertiary amines may react to form Nitrosamines. Some Nitrosamines have been shown to be carcinogenic in laboratory animals.

This product may contain up to 2.5ppm Residual ethylene oxide (ETO). According to our supplier (for the raw material contributing the Residual ETO) each 1ppm of ETO liquid can produce 5-7ppm ETO vapor in the head-space of storage vessels. Head-spaces must be ventilated and checked for ETO vapor prior to performing any maintenance or non-routine tasks where exposures could occur. Refer to the OSHA Ethylene Oxide Standard 1910.1047 for Control Measures.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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<u>Boiling Point:</u> >100°C/212°F	<u>Specific Gravity(H<sub>2</sub>O=1)</u> ~1.1
<u>Vapor Pressure (mm Hg.)</u> Not Determined	<u>% Volatiles</u> 60-90% Water
<u>Vapor Density(AIR = 1)</u> Not Determined	<u>Evaporation Rate</u> (Butyl Acetate = 1) Approx. Equal to Water
<u>Solubility in Water:</u> Complete	<u>pH</u> 6 - 10

Bulk Density (#/cu. ft): Not Applicable

Appearance and Odor: Varies for specific product from water white to yellow or green. No distinctive odor.

Odor Threshold:  
Not determined for this product.  
(Diethanolamine 0.3 ppm)

**SECTION 10 - STABILITY AND REACTIVITY**

Stable under normal conditions (yes or no): YES

Conditions or Materials to avoid (which may react or cause instability):  
None Known

Hazardous Decomposition or Byproducts:

If dried and burned Carbon monoxide, Carbon dioxide, Nitrogen oxide and Sulfur dioxide.

Hazardous Polymerization:

Will not occur

Conditions to Avoid:

None Known

**SECTION 11 - TOXICOLOGICAL INFORMATION**

INGREDIENT (Chemical Name, CAS#, & Common Name)	TOXICITY DATA LD <sub>50</sub> , LC <sub>50</sub> etc. (See Section 2 for Exposure Limits)
<u>CONTAINS ONE OR MORE OF THE FOLLOWING INGREDIENTS:</u>	

<b>Benzenesulfonic Acid Dodecyl-Sodium Salt</b> CAS# 25155-30-0	LD <sub>50</sub> (oral, rat)	1,260 mg/kg
<b>Dimethoxane</b> CAS# 828-00-2	LD <sub>50</sub> (oral, rat)	1,930 mg/kg
<b>Diethanolamine</b> CAS# 111-42-2	LD <sub>50</sub> (oral, rat)	710 mg/kg
<b>Triethanolamine</b> CAS# 102-71-6	LD <sub>50</sub> (oral, rat)	8,000 mg/kg
<b>Miscellaneous Ingredients</b> (Not Regulated As Hazardous- See Section 2)	LD <sub>50</sub> (oral, rat)	3,000 mg/kg or greater

**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.

According to U.S. EPA (40 CFR § 261) waste of this product is not defined as hazardous. However, individual ingredients may be subject to local disposal restrictions.

**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 and 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:**

DELAYED (CHRONIC) HEALTH  
IMMEDIATE (ACUTE) HEALTH

Contains Extremely Hazardous-SARA III Section 302 Ingredient: NO  
Comments:

Contains Toxic Chemical Release-SARA III Section 313 Ingredient: YES  
Comments: Contained in HYPER I and MARK V - 3% Diethanolamine: 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).

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(Not Meant To Be All Inclusive

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

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**CALIFORNIA PROPOSITION 65 INFORMATION: WARNING:** This product contains substances known to the state of California to cause cancer, birth defects or other reproductive harm.

**CERCLA HAZARDOUS SUBSTANCES:** Benzenesulfonic acid-dodecyl sodium salt CAS# 25155-30-0 is listed as a reportable substance with a reportable quantity (RQ) of 1,000 lbs. Diethanolamine CAS# is also listed with an RQ of 100 lbs. Based on the maximum possible content, a 400 gallon spill of product would equal the RQ. Report such spills to the National Response Center (800-424-8802), the SERC and the LEPC.

**STATE SPECIFIC EMERGENCY RELEASE REQUIREMENTS:**

Some chemicals contained in this product such as Benzenesulfonic acid dodecyl salt have state regulated reportable quantities which are 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 Coordinator in your company or the appropriate Department of Environmental Protection if product is released to the land or water.

**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.

**Nonhazardous Ingredient Disclosure:**

Water CAS# 7732-18-5, Fatty alkanolamide CAS# 68603-42-9, Alkyl phenol ethoxylate surfactant CAS# 9016-45-9, Benzenesulfonic acid dodecyl compound with Triethanolamine and Diethanolamine CAS# 27323-41-7, 26545-53-9.

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**SECTION 16 - OTHER INFORMATION**

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

CBP™	HYPER I™
CBP™ Concentrate	MARK V™
DBM®-R	MAXI-PLAST™
DBM®-S	

"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."