

W. R. GRACE
MATERIAL SAFETY DATA SHEET

Product Name: Daratard 17
MSDS ID Number: D-05660

MSDS Date: 10/27/2003

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Daratard 17
MSDS Number: D-05660
Cancelled MSDS Number: D-05518
MSDS Date: 10/27/2003
Chemical Family Name: Aqueous Solution of Lignosulfonate & Compound
Carbohydrates
Product Use: Concrete Water Reducer/Retarder
Chemical Formula: Mixture-NA
**CAS # (Chemical Abstracts
Service Number):** Mixture-NA

Manufactured by:

W.R.Grace & Co.-Conn.
62 Whittemore Avenue
Cambridge, MA 02140

Grace Canada, Inc.
294 Clements Road West
Ajax, Ontario L1S 3C6

In Case of Emergency Call:

In USA: (617) 876-1400 In Canada: (905) 683-8561

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Percent (max)
See Section 16 for Non-Hazardous Ingredients		

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:

Caution!

May cause slight skin or eye irritation.

HMIS Rating:

Health: 1
Flammability: 1
Reactivity: 0
Personal Protective Equipment: B (See Section 8)

W. R. GRACE
MATERIAL SAFETY DATA SHEET

Product Name: Daratard 17
MSDS ID Number: D-05660

MSDS Date: 10/27/2003

Potential Health Effects:

Inhalation:

Acute inhalation not expected to result in adverse effects.

Eye Contact:

Acute eye contact is not expected to result in adverse effects.

Skin Contact:

Acute skin contact is not expected to result in adverse effects.

Skin Absorption:

Not expected to be harmful if absorbed through the skin.

Ingestion:

Ingestion not expected to be harmful.

SECTION 4 - FIRST AID MEASURES:

Skin Contact:

Wash with soap and water.

If discomfort or irritation persists, consult a physician.

Remove contaminated clothing and wash before reuse.

Eye Contact:

Flush eyes with water for at least 15 minutes while holding eyelids open.

If discomfort or irritation persists, consult a physician.

Ingestion:

Do not induce vomiting.

Never give anything by mouth to an unconscious person.

If discomfort or irritation persists, consult a physician.

Inhalation:

If symptoms develop, get fresh air. If symptoms persist, consult a physician.

If breathing has stopped, give artificial respiration then oxygen if needed.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flash Point:	>93°C/200°F
Flash Point Method:	Estimated
Lower Explosion Limit:	Not Available
Upper Explosion Limit:	Not Available
Auto-Ignition Temperature:	Not Available

NFPA Rating:

Health:	1
Flammability:	1
Reactivity:	0

W. R. GRACE
MATERIAL SAFETY DATA SHEET

Product Name: Daratard 17
 MSDS ID Number: D-05660

MSDS Date: 10/27/2003

Extinguishing Media: In case of fire, use water spray, dry chemical, Carbon dioxide or foam.

Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to vapors or products of combustion exist. Water may be used to cool containers to prevent pressure build-up and possible auto-ignition or explosion. Avoid breathing hazardous vapors or products of combustion, keep upwind. Isolate area and keep unnecessary people away. Prevent run-off from fire control or dilution from entering streams or drinking water supplies.

No special procedures specific to this product.

Unusual Fire and Explosion Hazards:

None unless noted below.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

Spills/Leaks:

Use proper personal protective equipment. Do not flush to sewer or allow to enter waterways. Keep unnecessary people away. Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container. For large spills, dike area and pump waste material into closed containers for disposal or reclamation.

SECTION 7 - HANDLING AND STORAGE

Precautionary Measures:

Avoid contact with eyes, skin and clothing.
 Do not take internally.
 Practice good personal hygiene to avoid ingestion.
 Use only with adequate ventilation.
 Wash clothing before reuse.
 Keep away from heat, sparks and flame.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

EXPOSURE GUIDELINES (US)

Ingredient	ACGIH TLV			OSHA PEL			Other
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	
Not Applicable-	-	-	-	-	-	-	-

W. R. GRACE
MATERIAL SAFETY DATA SHEET

Product Name: Daratard 17
MSDS ID Number: D-05660

MSDS Date: 10/27/2003

EXPOSURE GUIDELINES (CANADA)

Employers should consult local Provincial regulatory limits for exposure guidelines which may vary locally.

Engineering Controls: Not generally required.

Personal Protective Equipment:

Respiratory Protection: Respiratory protection is not normally required. However, a chemical cartridge respirator with organic vapor cartridge and a prefilter for dusts/mits is required at or above the applicable exposure limits (Consult above Exposure Guidelines).

Skin Protection: Rubber or other impervious gloves should be worn to prevent skin contact.

Eye Protection: At minimum, safety glasses with side shields should be worn where exposure to excessive dust or spray is likely.

Work/Hygienic Practices: Use good personal hygiene practices.
None beyond those noted above.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance/Odor:	Dark brown liquid with slight, non-distinct odor.
Odor Threshold: (ppm)	None Established
pH:	5-8
Vapor Pressure: (Mm Hg)	Not Applicable
Vapor Density: (Air = 1)	Not Applicable
Solubility In Water:	Complete
Specific Gravity: (Water = 1)	~1.2
Evaporation Rate: (Butyl Acetate = 1)	Not Applicable
Boiling Point:	>100°C/212°F
Viscosity:	Unknown
Bulk Density: (Pounds/Cubic Foot)(Pcf)	Not Applicable
% Volatiles (gr/L): (70°F) (21°C)	40 - 55% (As Water)

W. R. GRACE
MATERIAL SAFETY DATA SHEET

Product Name: Daratard 17
MSDS ID Number: D-05660

MSDS Date: 10/27/2003

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions To Avoid: None known for this product.
Hazardous Polymerization: Will not polymerize.
Hazardous Decomposition None known for this product.
Products:

SECTION 11 - TOXICOLOGICAL INFORMATION

Ingredient(No data unless listed.) **CAS Number** **LD50 and LC50**

Carcinogenicity:

Ingredient	IARC Group 1	IARC Group 2A	IARC Group 2B	NTP Known	NTP Suspect	OSHA
Sodium 0-phenylphenate			X			

Mutagenicity: Not applicable.
Teratogenicity: Not applicable.
Reproductive Toxicity: Not applicable.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Fate: No data available for product.
Ecotoxicity: No data available for product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Procedures:

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. According to EPA (40 CFR § 261), waste of this product is not defined as hazardous. Dispose of waste in accordance with all applicable regulations.

W. R. GRACE
MATERIAL SAFETY DATA SHEET

Product Name: Daratard 17
MSDS ID Number: D-05660

MSDS Date: 10/27/2003

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:	Not Applicable
UN/NA Number:	Not Applicable
Domestic Hazard Class:	Nonhazardous
Surface Freight Classification:	Concrete or Masonry Plasticizer & Water Reducing Compound
Label/Placard Required:	Not Applicable

SECTION 15 - REGULATORY INFORMATION

REGULATORY CHEMICAL LISTS:

CERCLA (Comprehensive Response Compensation and Liability Act):
(None present unless listed below)

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>CERCLA RQ</u>
----------------------	--------------	-------------	------------------

SARA Title III (Superfund Amendments and Reauthorization Act)

SARA Section 312/Tier I & II Hazard Categories:

Health Immediate (acute)	Yes
Health Delayed (chronic)	No
Flammable	No
Reactive	No
Pressure	No

302 Reportable Ingredients (Identification Threshold 1%.):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>SARA 302</u> <u>TPQ</u>
----------------------	--------------	-------------	-------------------------------

313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Nitrate compounds	RR-01770-9	.00175
Sodium o-phenylphenate	132-27-4	0.25

W. R. GRACE
MATERIAL SAFETY DATA SHEET

Product Name: Daratard 17
MSDS ID Number: D-05660

MSDS Date: 10/27/2003

National Volatile Organic Compound Emission Standards For Architectural Coatings:

Volatile Organic Content: (gr/L) Not Applicable

WHMIS Classification(s): D2 B

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

State Regulatory Information:

California Proposition 65: WARNING! This product contains substances known to the state of California to cause cancer, birth defects or other reproductive harm.

Massachusetts Hazardous Substance List(Identification threshold 0.001%(1ppm)):

Chemical Name **CAS #** **Wt %**

New Jersey Hazardous Substance List(Identification threshold (0.1%)):

Chemical Name **CAS #** **Wt %**

Pennsylvania Hazardous Substance List(Identification threshold 0.01%):

Chemical Name **CAS #** **Wt %**

CHEMICAL INVENTORY STATUS:

All chemicals in this product are listed or exempt from listing in the following countries:

US	CANADA		EUROPE	AUSTRALIA	JAPAN	KOREA	PHILIPPINES
TSCA	DSL	NDSL	EINECS/ELINCS	AICS	ENCS	ECL	PICCS
Yes	Yes	No	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined

W. R. GRACE
MATERIAL SAFETY DATA SHEET

Product Name: Daratard 17
MSDS ID Number: D-05660

MSDS Date: 10/27/2003

SECTION 16 - OTHER INFORMATION

Non-Hazardous Ingredient Disclosure:

<u>Chemical Name</u>	<u>CAS Number</u>
Corn Syrup	008029-43-4
Water	007732-18-5
Calcium Lignosulfonate	008061-52-7

Prepared by:	EH&S Department
Approved by:	EH&S Department
Approved Date:	10/27/2003

Disclaimer:

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the 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."