

**W. R. GRACE**  
**MATERIAL SAFETY DATA SHEET**

Product Name: Daravair® 1400  
MSDS ID Number: D-05548

MSDS Date: 03/12/2002

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

**Product Name:** Daravair® 1400  
**MSDS Number:** D-05548  
**Cancelled MSDS Number:** D-05453  
**MSDS Date:** 03/12/2002  
**Chemical Family Name:** Aqueous Solution of Neutralized Resin Acids and Rosin Acids  
**Product Use:** Concrete Air Entraining Agent  
**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**

<b>Ingredient</b>	<b>CAS#</b>	<b>Percent (max)</b>
Resin acids and Rosin acids, maleated, potassium salts	085409-27-4	1-5
Resin acids and Rosin acids, potassium salts	061790-50-9	5-10

**SECTION 3 - HAZARDS IDENTIFICATION**

**Emergency Overview:**

**Warning!**

- Causes eye burns.
- Causes skin irritation.
- May be harmful if ingested.
- Causes digestive tract burns if ingested.

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**HMIS Rating:**

Health:	2*
Flammability:	0
Reactivity:	0
Personal Protective Equipment:	B (See Section 8)

**Potential Health Effects:**

**Inhalation:**

Acute inhalation not expected to result in adverse effects.

If inhaled as a vapor or mist, causes irritation, sore throat, coughing and breathing difficulty.

Effects include: No other effects expected unless listed below.

**Eye Contact:**

Eye contact causes burns.

**Skin Contact:**

Skin contact causes irritation.

Prolonged skin contact can result in burns.

**Skin Absorption:**

Not expected to be harmful if absorbed through the skin.

**Ingestion:**

Harmful if ingested.

If ingested, causes burns to the linings of the mouth, esophagus and stomach.

Effects include the following: No other effects expected unless listed below.

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**SECTION 4 - FIRST AID MEASURES:**

**Skin Contact:**

If discomfort or irritation persists, consult a physician.

Wash with soap and water.

Remove contaminated clothing and wash before reuse.

**Eye Contact:**

Call a physician immediately.

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

**Ingestion:**

If discomfort or irritation persists, consult a physician.

Never give anything by mouth to an unconscious person.

Do not induce vomiting.

**Inhalation:**

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

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

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**SECTION 5 - FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point:</b>	Not Applicable
<b>Flash Point Method:</b>	Not Applicable
<b>Lower Explosion Limit:</b>	Not Available
<b>Upper Explosion Limit:</b>	Not Available
<b>Auto-Ignition Temperature:</b>	Not Available

**NFPA Rating:**

<b>Health:</b>	1
<b>Flammability:</b>	0
<b>Reactivity:</b>	0

**Extinguishing Media:** In case of fire, use water spray, dry chemical, Carbon dioxide or alcohol 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 known for this product.

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**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.

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**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.

**FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.**

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT**

**EXPOSURE GUIDELINES (US)**

Ingredient	ACGIH TLV			OSHA PEL			Other
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	
Resin acids and Rosin acids, maleated, potassium salts	-	-	-	-	-	-	-
Resin acids and Rosin acids, potassium salts	-	-	-	-	-	-	-
Rosin	sensitizer; reduce exposure to as low as possible	-	-	-	-	-	-

**EXPOSURE GUIDELINES (CANADA)**

Employers should consult 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 is required at or above the applicable exposure limits (Consult above Exposure Guidelines). If no limits exist, use an approved respirator whenever a vapor or mist is generated or if respiratory irritation occurs. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

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**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.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid
<b>Appearance/Odor:</b>	Dark brown liquid with sweet, pine-like odor.
<b>Odor Threshold:</b> (ppm)	Not Determined
<b>pH:</b>	10 - 12
<b>Vapor Pressure:</b> (Mm Hg)	Unknown
<b>Vapor Density:</b> (Air = 1)	Same as Water
<b>Solubility In Water:</b>	Complete
<b>Specific Gravity:</b> (Water = 1)	1.0-1.1
<b>Evaporation Rate:</b> (Butyl Acetate = 1)	~Equal to Water
<b>Boiling Point:</b>	>100°C/212°F
<b>Viscosity:</b>	Unknown
<b>Bulk Density:</b> (Pounds/Cubic Foot)(Pcf)	Not Applicable
<b>% Volatiles (gr/L):</b> (70°F) (21°C)	~90% Water

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**SECTION 10 - STABILITY AND REACTIVITY**

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



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**SECTION 15 - REGULATORY INFORMATION**

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**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>
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**SARA Title III (Superfund Amendments and Reauthorization Act)**

**SARA Section 312/Tier I & II Hazard Categories:**

Health Immediate (acute)	Yes
Health Delayed (chronic)	Yes
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>
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**313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**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.



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**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."