

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

Product Name: Optec EC-191  
MSDS ID Number: MP-90346

MSDS Date: 05/19/2005

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

**Product Name:** Optec EC-191  
**MSDS Number:** MP-90346  
**Cancelled MSDS Number:** MP-90304  
**MSDS Date:** 05/19/2005  
**Chemical Family Name:** Glycol, Tall oil, Tall oil amine reaction product and Water blend

**Product Use:** Concrete & Masonry Release 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**

Ingredient	CAS#	Percent (max)
Diethylene Glycol	000111-46-6	1-10
Fatty acids, tall-oil	061790-12-3	50-100
Fatty acids, tall-oil, reaction products with triethanolamine	067784-78-5	1-10

**SECTION 3 - HAZARDS IDENTIFICATION**

**Emergency Overview:**

**Caution!**

Causes eye irritation.  
Causes skin irritation.  
May be fatal if ingested.  
May cause reproductive effects.  
May cause liver and kidney damage.  
May cause sensitization.

**HMIS Rating:**

Health: 2\*  
Flammability: 1  
Reactivity: 0  
Personal Protective Equipment: B (See Section 8)

**Potential Health Effects:**

**Inhalation:**

Causes respiratory tract irritation.  
If inhaled as a vapor or mist, causes irritation, sore throat, coughing and breathing difficulty.  
Effects include: Nausea, headache and dizziness.

**Eye Contact:**

Eye contact causes irritation.  
Prolonged eye contact can result in redness and itching.

**Skin Contact:**

Skin contact causes irritation.  
Prolonged skin contact can result in irritation causing redness and itching.  
May cause sensitization.

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**Skin Absorption:**

Not expected to be harmful if absorbed through the skin.

**Ingestion:**

May be fatal if ingested.

Effects include: Drowsiness, nausea, pulmonary edema (from aspiration into the lungs from vomiting), pain, vomiting, diarrhea, thirst, circulatory collapse, coma and digestive tract irritation.

Diethylene & Ethylene glycol can cause liver and kidney damage. Animal studies with large doses of Diethylene glycol indicated there was evidence of reproductive toxicity.

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**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.

Call a physician or poison control center immediately.

**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>	>300°F
<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 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.

**Unusual Fire and Explosion Hazards:**

None unless noted below.

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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.

Oil spills released directly to waterways may be subject to National Response Center (1-800-424-8802) reporting. Immediately contact your company's environmental coordinator or the Grace Environmental Health and Safety Department.

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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:**

Do not cut, drill or weld on or near containers whether full or empty.

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	
Diethylene Glycol	-	-	-	-	-	-	-
Fatty acids, tall-oil	-	-	-	-	-	-	-
Fatty acids, tall-oil, reaction products with triethanolamine	-	-	-	-	-	-	-

#### **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/mists 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.

**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**

<b>Physical State:</b>	Liquid
<b>Appearance/Odor:</b>	Orangish liquid. Pleasant odor.
<b>Odor Threshold:</b> (ppm)	Not Determined
<b>pH:</b>	Not Available
<b>Vapor Pressure:</b> (Mm Hg)	Not Determined
<b>Vapor Density:</b> (Air = 1)	Not Determined
<b>Solubility In Water:</b>	Insoluble
<b>Specific Gravity:</b> (Water = 1)	~0.90
<b>Evaporation Rate:</b> (Butyl Acetate = 1)	Negligible.
<b>Boiling Point:</b>	>500°F
<b>Viscosity:</b>	Unknown
<b>Bulk Density:</b> (Pounds/Cubic	Not Applicable



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Reactive No  
Pressure No

**302 Reportable Ingredients (Identification Threshold 1%):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>SARA 302 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>
C.I. Food red 15	000081-88-9	.01
Ethylene Glycol	000107-21-1	.0165

**Oil Pollution and Response (Clean Water Act)**

This product may be subject to EPA's Spill Prevention Control and countermeasure (SPCC) Plan and Facility Response Plan (FRPs) requirements based on oil content.

**National Volatile Organic Compound Emission Standards For Architectural Coatings:**

**Volatile Organic Content:** (gr/L) 0

**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 0.0001%(1ppm)):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**New Jersey Hazardous Substance List(Identification threshold (0.1%)):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**Pennsylvania Hazardous Substance List(Identification threshold 0.01%):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**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	Yes	Yes	No	Yes	Yes

**SECTION 16 - OTHER INFORMATION**

**Non-Hazardous Ingredient Disclosure:**

<u>Chemical Name</u>	<u>CAS Number</u>
Water	007732-18-5

**Prepared by:** EH&S Department  
**Approved by:** EH&S Department  
**Approved Date:** 05/20/2005

**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."