SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ECLIPSE PLUS
MSDS Number: D-06002
Cancelled MSDS Number: D-05834
MSDS Date: 03/02/2005
Chemical Family Name: Aliphatic Propylene Glycol Ethers.
Product Use: Concrete Shrinkage Reduction Admixture
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)
Dipropylene glycol	025265-71-8	25-50
Dipropylene Glycol Di-Tert-Butyl Ether	069506-59-8	1-10
Propanol, [2-(1,1-dimethylethoxy)methylethoxy]-	132739-31-2	25-50

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:

Warning!
Inhalation of vapors can be harmful. Forced ventilation required for some applications.
Causes eye irritation.
Causes skin irritation.
Causes digestive tract irritation if ingested.

HMIS Rating:

Health:	2
Flammability:	1
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 irritation.
Skin Contact: Skin contact causes irritation.
Skin Absorption: Not expected to be harmful if absorbed through the skin.
Ingestion: Ingestion not expected to be harmful.
If ingested, causes irritation to the linings of the mouth, esophagus and stomach.
Effects include: No other effects expected unless listed below.

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:	205°F
Flash Point Method:	Pensky Marten Closed Cup
Lower Explosion Limit:	Not Available
Upper Explosion Limit:	Not Available
Auto-Ignition Temperature:	Not Available

NFPA Rating:

Health:	1
Flammability:	1
Reactivity:	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.
No special procedures specific to this product.
Unusual Fire and Explosion Hazards:
When mixed with air and exposed to an ignition source, vapors can burn in open air or explode in confined spaces. Vapors are heavier than air and may travel along ground to ignition sources such as electrical equipment, smoking materials, welding equipment, and pilot lights. Do not cut, drill, grind or weld on or near container whether empty or full. Keep container closed except when in use. Heat from fire can generate flammable vapor. May ignite at temperatures below auto-ignition and normal flash point.

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:
Do not cut drill or weld on or near containers weather full or empty. Vapor and liquid may be combustible if heated above 250F. Residue may ignite causing fire/explosion. Below grade and other applications with poor natural ventilation require forced ventilation and/or use of respiratory protection. Keep containers closed tightly when not in use to avoid unnecessary release of vapor and to prevent spills.
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	
Dipropylene glycol	-	-	-	-	-		-
Dipropylene Glycol Di-Tert-Butyl Ether	-	-	-	-	-		-
Propanol, [2-(1,1-dimethylethoxy)methylethoxy]-	-	-	-	-	-		-

EXPOSURE GUIDELINES (CANADA)

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

Engineering Controls: Exhaust fans or other methods to improve ventilation are required for below grade and other poorly ventilated applications. (Contact your Grace Sales representative for additional information.)

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). 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.
A respirator would be required below grade and other poorly ventilated applicatications. (Contact your Grace sales representative for additional information.)
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:	Light orange translucent liquid. Ether-like odor.
Odor Threshold: (ppm)	Not Available
pH:	Not Available
Vapor Pressure: (Mm Hg)	<0.1mm Hg @ 68°F
Vapor Density: (Air = 1)	Not Available
Solubility In Water:	~15% @ 70°F
Specific Gravity: (Water = 1)	0.93-0.94 @ 77°F
Evaporation Rate: (Butyl Acetate = 1)	~0.02
Boiling Point:	~414°F @ 760mm Hg
Viscosity:	Unknown
Bulk Density: (Pounds/Cubic Foot)(Pcf)	Not Applicable
% Volatiles (gr/L): (70°F) (21°C)	100 %

SECTION 10 - STABILITY AND REACTIVITY

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

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
Dipropylene glycol	No	No	No	No	No	No
Dipropylene Glycol Di-Tert-Butyl Ether	No	No	No	No	No	No
Propanol, [2-(1,1-dimethylethoxy)methylethoxy]-	No	No	No	No	No	No

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.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name: Not Applicable
UN/NA Number: Not Applicable
Domestic Hazard Class: Nonhazardous
Surface Freight Classification: Concrete Plasticizer
Label/Placard Required: Not Applicable

SECTION 15 - REGULATORY INFORMATION

REGULATORY CHEMICAL LISTS:

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

Chemical Name	CAS #	Wt %	CERCLA RQ

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%.):

Chemical Name	CAS #	Wt %	SARA 302 TPQ

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

Chemical Name	CAS #	Wt %

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: This product does not contain 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)):

Chemical Name	CAS #	Wt %
Nitrilotriacetic acid trisodium salt	005064-31-3	.0012

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	No	Yes	No	No	No	No	No

SECTION 16 - OTHER INFORMATION

Non-Hazardous Ingredient Disclosure:

Chemical Name	CAS Number
Water	007732-18-5

Prepared by: EH&S Department
Approved by: EH&S Department
Approved Date: 03/02/2005

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."