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W. R. GRACE MATERIAL SAFETY DATA SHEET

Product Name: System 4000 Surface Conditioner, Perm-A-Barrier® Surface Conditioner

MSDS ID Number: M-85853

MSDS Date: 05/14/2010

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: System 4000 Surface Conditioner, Perm-A-Barrier® Surface Conditioner
MSDS Number: M-85853
Cancelled MSDS Number: M-85767
MSDS Date: 05/14/2010
Chemical Family Name: Modified Latex Dispersion
Product Use: Adhesive Surface Conditioner
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)
2-Propenoic acid, 2-methyl-, methyl ester, polymer	025951-38-6	25-50
Methyl alcohol	000067-56-1	1-10

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:

Caution!

Causes eye irritation.
Causes skin irritation.
Causes respiratory tract irritation.
May be harmful if swallowed.

HMIS Rating:

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

Potential Health Effects:

Inhalation: Causes respiratory tract irritation.

Inhalation may result in effects similar to those under ingestion.

Effects include: Drowsiness, nausea, headache and dizziness.

Eye Contact: Eye contact causes irritation.

Prolonged eye contact can result in tissue damage.

Skin Contact: Skin contact causes irritation.

May defat skin.

Skin Absorption: Skin absorption of the methanol fraction of this product may cause metabolic effects similar to those outlined under ingestion.

Ingestion: If swallowed may cause irritation to mouth, throat and stomach.

When ingested Methanol acts as a narcotic/neurotoxin and may cause mild inebriation and subsequent drowsiness, headache, weakness, vertigo, and violent pain in the back, abdomen and extremities. Effects on the eye may include blurred or dimmed vision, eye pain, partial blindness or permanent blindness may occur. Ingestion of Methanol may be fatal. Methanol poisoning may cause degenerative damage to the kidneys, liver, heart and other organs due to metabolic acidosis.

Effects include: Drowsiness, nausea, headache, dizziness and loss of consciousness.

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SECTION 4 - FIRST AID MEASURES:

Skin Contact: In case of skin contact, clean fingernails and wash skin with soap and water. If residue remains, clean with waterless hand cream or abrasive soap. Never use solvents.
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 swallowed consult a physician 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.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flash Point: >141°F
Flash Point Method: Closed Cup
Lower Explosion Limit: Not Available
Upper Explosion Limit: Not Available
Auto-Ignition Temperature: Not Available

NFPA Rating:

Health: 1
Flammability: 2
Reactivity: 0

Extinguishing Media: In case of fire, use water spray, dry chemical, Carbon dioxide or foam.
Special Fire Fighting Procedures: Firefighters should be equipped with Self-contained Breathing Apparatus (SCBA) to prevent inhalation of hazardous decomposition products. (See Section 10.)
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.

SECTION 7 - HANDLING AND STORAGE

Precautionary Measures: When working around heating and air conditioning systems, block intake vents to prevent vapor from traveling into buildings. Keep away from heat, sparks and flame. Enforce no smoking policy for all trades present on job site. Keep container closed tightly when not in use to avoid unnecessary release of vapors and to prevent spills. Do not reuse empty containers.
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.
To avoid skin contact, use gloves or barrier creams. Promptly cleanse hands with waterless hand cleaner, clean fingernails and wash with soap and water after handling.
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	
2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl	-	-	-	-	-	-	-
Methyl alcohol	200 ppm TWA	250 ppm STEL	-	200 ppm TWA, 260 mg/m3 TWA	250 ppm STEL, 325 mg/m3 STEL	-	-

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EXPOSURE GUIDELINES (CANADA)

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

Engineering Controls: Local exhaust ventilation is recommended. Vapors are heavier than air and will build-up in confined spaces without ventilation. Vapor build-up can be life threatening. Portable equipment such as a Coppus Vano portable blower/exhauster should be used in accordance with the manufacturer's instructions.

Personal Protective Equipment:

Respiratory Protection: 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). Methanol has poor warning properties and will result in a shortened organic vapor canister service life. A supplied air respirator (SCBA) is required if the capabilities of a chemical cartridge respirator are exceeded.

Skin Protection: PVA supported polyvinyl alcohol, nitrile or viton gloves are recommended. Natural rubber or butyl rubber gloves should not be worn.

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: Milky white, liquid with a latex paint type odor.
Odor Threshold: (ppm) Not Determined
pH: ~8.5
Vapor Pressure: (Mm Hg) Not Tested
Vapor Density: (Air = 1) Not Applicable
Solubility In Water: Complete
Specific Gravity: (Water = 1) ~1.1
Evaporation Rate: (Butyl Acetate = 1) Not Applicable
Boiling Point: >212°F/100°C
Viscosity: Unknown
Bulk Density: (Pounds/Cubic Foot)(Pcf) 8.8 lbs./gallons
% Volatiles: (70°F) (21°C) ~60% (As Water)

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions To Avoid: Heat, Sparks, Open flames and Oxidizing materials.
Hazardous Polymerization: Will not polymerize.
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide and Formaldehyde.

SECTION 11 - TOXICOLOGICAL INFORMATION

Ingredient(No data unless listed.) CAS Number LD50 and LC50
Methyl alcohol 000067-56-1 Inhalation LC50 Rat: 64000 ppm/4H;
Oral LD50 Rat: 5628 mg/kg;
Oral LD50 Mouse: 7300 mg/kg; Dermal LD

Carcinogenicity:

Table with 7 columns: Ingredient, IARC Group 1, IARC Group 2A, IARC Group 2B, NTP Known, NTP Suspect, OSHA. Rows include 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl and Methyl alcohol.

Mutagenicity: Not applicable.

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Teratogenicity:	Not applicable.
Reproductive Toxicity:	Not applicable.

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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: Adhesive Cement N.O.I.
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>
Methyl alcohol	000067-56-1	3.6	5000 lb final RQ; 2270 kg final RQ

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	Yes
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>
Ammonia	007664-41-7	.07
Methyl alcohol	000067-56-1	3.6

National Volatile Organic Compound Emission Standards For Architectural Coatings:

Volatile Organic Content: (gr/L) 92 g/l

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)):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Ammonia	007664-41-7	.07

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

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<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Methyl alcohol	000067-56-1	3.6

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	Not Determined	Yes	Not Determined	Not Determined	Not Determined

SECTION 16 - OTHER INFORMATION

Non-Hazardous Ingredient Disclosure:

Chemical Name

Water

CAS Number

007732-18-5

Prepared by:

EH&S Department

Approved by:

EH&S Department

Approved Date:

05/14/2010

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."