HMIS Rating	
Health	
Flammability	
Reactivity	
Personal Protection	

MATERIAL SAFETY DATA SHEET

(Complies with OSHA Communication Standard 29 CFR 1910.1200 Dept. of Labor)
Form approved OMB No. 1218-0072
OSHA 174 - Sept. 1985

NFPA Rating	
Health	
Flammability	
Reactivity	
Special	

Section I - Product Identification

RayCrete - Part "B"

Marketer's Name Must Appear Below	DOT Shipping and Hazard Classification: Not Applicable
Manufactured For: **Maintenance Magic**	Emergency Telephone Number **(760) 599-6427**
Address: **740 Clay Street NW, Auburn, WA 98001**	Telephone Number for Information **(253) 804-8666**
	Date Prepared 02/25/2003

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity)	CAS Number	(OSHA) PEL	(ACGIH) TLV
4,4' Methylene bis (phenyliscocyanate)	101-68-8	0.02ppm	0.0005ppm
Polymethylene polyphenyl isocynate	9016-87-9	None Established	None Established
maycontain			
silica, quartz, crystalline <0.002%	14808-60-7	0.1 mg / M3	0.1 mg / M3
As defined by OSHA Hazard Communication Standard 29CFR1910.1200			

Crystalline silica quartz dust has been identified as a carcinogen or probable carcinogen by IARC

All chemical compounds marked with an Asterisk (*) are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture or trade name is sold. This statement must remain a part of this Material Safety Data Sheet.

Section III - Physical/Chemical Characteristics

Boiling Point: (@5mg Hg) 392°F	Specific Gravity (H_2O=1): 1.63	Percent Volatile by Volume (%) : Nil
Vapor Pressure PSIG @ 70°F: (@25°C)<0.00001	Vapor Density (Air=1): Approx 8.6	Evaporation Rate (Butyl Acetate=1): NA
Solubility in Water: Reacts with water	Appearance: greenish paste	Odor: pH:

Section IV - Fire and Explosion Hazard Data

Flash Point (Test Method: >390°F (COC)	Flammable Limits: LEL NA UEL NA

Extinguishing Media: Foam, dry chemical, carbon dioxide, water spray

Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus

Unusual Fire and Explosion Hazards: Avoid water contamination in closed containers or confined spaces as carbon dioxide or exothermic heat are evolved. Reacts with hydrofluoric acid to form toxic silicon tetrafluoride gas.

Section V - Reactivity Data

STABILITY:		Unstable	X	Stable	Conditions to Avoid: None

Incompatibility (Materials To Avoid): Water, acids, strong bases, alcohols, metal compounds, and surface active agents; water reacts to form carbon dioxide, exothermic heat and insoluble urea; the combined effect of carbon dioxide and heat could build up enough pressure to rupture a closed container; the water reaction is slow at temperatures below 120°F (49°C), but accelerated at higher temperatures and in the presence of strong bases and certain metal compounds.

Hazardous Decomposition or By-products: Isocynanate vapor, oxides of carbon and nitrogen, trace HCN. Reacts with hydrofluoric acid to form toxic silicon tetrafluoride gas.

Hazardous Polymerization	X	May Occur	Conditions to Avoid: Strong bases, metal compounds water over 120°F (49°C), and temperatures above 347°F (175°C)
		Will Not Occur	

Section VI - Health Hazard Data

Routes of Entry: Inhalation Yes Ingestion Skin Absorption Yes Eye

Signs and Symptoms of Exposure

Inhalation: LC 50 values of this mixture are estimated to be 6016 ml/m3. May cause respiratory sensitization in individuals; at room temperature, vapors are minimal due to low vapor pressure; if heated or sprayed as an aerosol, excessive concentrations are attainable that could be hazardous on single exposure; excessive exposure may cause irritation of the eyes, upper respiratory tract and lungs; effects may be delayed; decreased ventilatory capacity has been associated with exposure to similar isocyanates; it is possible that exposure to MDI may cause similar impairment of lung function.

Ingestion: May have corrosive effects on the linings of the stomach & mouth, symptoms may include sore throat, abdominal pain, nausea, vomiting anddiarrhea.

Skin Contact: May cause irritation on prolonged or repeated contact.

Eye Contact: May cause irritation.

Medical Conditions Aggravated by Exposure: Pre-existing respiratory disorders.

Emergency First Aid Procedures

Inhalation: Remove from exposure immediately; if breathing is impared, oxygen should be administered by trained personnel..

Ingestion: DO NOT INDUCE VOMITING, unless instructed by a physician. Seek medical attention.

Skin Contact: Remove with water; if redness or rash develops seek medical attention.

Eye Contact: Flush with water for 15 minutes. Seek medical attention.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Dike and contain; cover with liquid absorbent material; only properly protected personnel should remain in the area; place in open tom container; remove to well ventilated area and treat with diluted ammonia solution; leave vented for 24 hours.

Waste Disposal Method: This material contains a hazardous contituent as identified in RCRA Title 40 CFR261 Appedix VIII and must be disposed of in accordance with local, state and federal regulations.

Precautions to be Taken in Handling and Storing: Harmful if inhaled; may cause eye and skin irritatin; vapors, which are significant if heated or sprayed, can cause allergic respiratory reaction; avoid contact with eyes, skin and clothing, protect from moisture contamination; reseal partial containers; use good general housekeeping procedures.

Section VIII - Control Measures

Protective Equipment Types

Eyes: Wear safety goggles.

Respiratory: Self-contained breathing apparatus in areas where PEL is exceeded.

Gloves: Rubber or plastic.

Other: Clean, long leg, long sleeved clothing.

Ventilation: General Mechanical Recommended. Local Exhaust Recommended to control source of vapors.

Work/Hygienic Practises: Wash thoroughly before eating, smoking or applying make-up.

Section VIIII - Regulatory Information

FEDERAL REGULATIONS

DOT HAZARDOUS MATERIALS TRANSPORTATION 49CFR 172.101 OR OPTIONAL TABLE 172.102

Hazard Class:	UN Number:	Proper Shipping Name:
Not Applicable	Not Applicable	Not Applicable

RESOURCE CONSERVATION AND RECOVERY ACT (40CFR261):

This material contains a hazardous constituent as identified in RCRA Title 40 CFR 261 Appendix VIII and must be disposed of in accordance with local, state and federal regulations.

CERCLA REQUIRES NOTIFICATION OF THE NATIONAL RESPONSE CENTER OF RELEASE OF QUANTITIES OF HAZARDOUS SUBSTANCED EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITIES (RQ'S) IN 40CFR302.4:

COMPONENTS THAT REQUIRE REPORTING	RQ	% OF REPORTABLE CONTENT
None		

SARA TITLE III REQUIRES EMERGENCY PLANNING BASED ON THRESHOLD PLANNING QUANTITIES (TPQ'S) AND RELEASE REPORTING BASED ON REPORTABLE QUANT ITIES (RQ'S) IN 40CFR355 (USED FOR SARA 302, 304, 311 AND 312):

COMPONENTS THAT REQUIRE REPORTING	TPQ	% OF REPORTABLE COMPONENT
None		

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION:

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40CFR372. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL:

CAS NUMBER	CHEMICAL NAME	% BY WEIGHT
101-68-8	4,4' Methylene bis (phenyliscocyananate)	8.8 max
9016-87-9	Polymethylene polyphenyl isocynate	12.3 max

TSCA INVENTORY STATUS (40CFR710): All components of this formulation are listed on the TSCA inventory.

STATE REGULATIONS

CALIFORNIA PROPOSITION 65:

This material contains a chemical which in the State of California has found to cause cancer.

FLORIDA, MASSACHUSETTS, MINNESOTA, PENNSYLVANIA AND WASHINGTON SUBSTANCE LIST:

Hazardous Substances and extraordinarily Hazardous Substances on the MSL must be identified when present in formulations above concentrations listed.

EXTRAORDINARILY HAZARDOUS SUBSTANCES (=>0.0001%):

CAS NUMBER	CHEMICAL NAME	% BY WEIGHT
None		

HAZARDOUS SUBSTANCES (=>1.0%):

CAS NUMBER	CHEMICAL NAME	% BY WEIGHT
101-68-8	4,4' Methylene bis (phenylisocynanate)	8.8 max