

MATERIAL SAFETY DATA SHEET

RAABE CORPORATION
N92 W14701 ANTHONY AVE.
MENOMONEE FALLS, WI 53051
INFORMATION TELEPHONE #: 414-255-9500

FOR CHEMICAL EMERGENCY
SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT
CALL CHEMTREC - DAY OR NIGHT
TELEPHONE #: 800-424-9300

MSDS #: 52

PREPARATION DATE: 03/12/91

REPLACES DATE: NEW MSDS

PREPARED BY: RMB

SECTION I - PRODUCT IDENTIFICATION

33296-01, 090-30003/RAL 9004 Black; 33297-01, 090-30011/RAL 5005 Blue; 33993, 090-31022/RAL 5021 Blue; 37447, 090-31030/RAL 5002 Blue; 38100, 090-31031 /RAL 5022 Blue; 41486, 090-31040/RAL 5001 Blue; 35454, 090-31012/RAL 8017 Brown; 41487, 090-31042/RAL 8012 Brown; 39230, 090-30000/RAL 7001 Gray; 34206, 090-31014/RAL 6005 Green; 41888, 090-31043/RAL 6009 Green; 35214, 090-31026/RAL 7036 Grey; 33487, 0903120 IF-3550 Red Orange; 41951, 090-31023 IF-5060 Safety Green; 40999, 090-31036/RAL 4004 Maroon; 34192, 090-31004/IF 5061 Orange; 41485, 090-31039/RAL 3014 Pink; 35215, 090-31027/RAL 4007 Purple; 37189, RAL 4005 Purple; 38721, 090-31034 RAL 3004 Red; 38274, 090-31033 RAL 1001 Tan; 30940-01, 090-30009 RAL 3000 Red; 38273, 090-31032 RAL 6029 Custom Green; 41488, 090-31041/RAL 3020 Red; 35142, 090-30025/RAL 7042 Silver; 30939-01, 090-30008/IF 5062 Tan; 36930, 090-31028/RAL 5018 Turquoise; 33295, 090-30000/RAL 9016 White; 33294, 090-31010/RAL 1032 Yellow.

LANDSCAPE STRUCTURES INC
ACRYLIC ENAMEL AEROSOL SPRAY

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS #	WT. % LESS THAN	OCCUPATIONAL EXPOSURE LIMITS (TLV-TWA)	(TLV-STEL)	VAPOR PRESSURE mmHg@20C	KNOWN OR SUSPECTED CARCINOGEN	SEC 313
SILICON DIOXIDE	7631-86-9	0-2	10mg/M3	Total Dust	0.0	NO	NO
ACETONE	67-64-1	36	750 ppm	1000 ppm	181.7	NO	YES
MINERAL SPIRITS	64742-88-7	0-2	100 ppm	NO INFO	8.0	NO	NO
PROPYLENE GLYCOL METHYL ETHER ACETATE	108-65-6	5-20	NONE EST.	NONE EST.	3.8	NO	NO
XYLENE	1330-20-7	8-16	100 ppm	150 ppm	5.1	NO	YES
LIGHT AROMATIC SOLVENT NAPHTHA	64742-95-6	0-4	50 ppm	NO INFO	10.0	NO	NO
ACRYLIC POLYMER	—	3-5	NOT HAZARDOUS		0.0	NO	NO
ALKYD RESIN	—	7-14	NOT HAZARDOUS		0.0	NO	NO
ALUMINUM FLAKE	7429-90-5	0-2	10 mg/m3	NO INFO	0.0	NO	YES
N-BUTYL ACETATE	123-86-4	0-2	150 ppm	200 ppm	15.0	NO	NO
N-BUTANE	106-97-8	8	800 ppm	NO INFO	879.0	NO	NO
PROPANE	74-98-6	16	1000 ppm	NO INFO	5637.0	NO	NO
ORGANIC & INORGANIC PIGMENTS	—	0-10	NOT HAZARDOUS		0.0	NO	NO

THIS PRODUCT CONTAINS ONE OR MORE MATERIALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND THE COMMUNITY RIGHT-TO-KNOW ACTS OF 1986 AND OF 40 CFR 372.

SECTION III - PHYSICAL DATA

BOILING RANGE:	31-344° F	VAPOR DENSITY:	HEAVIER THAN AIR	SPECIFIC GRAVITY:	.7608-.8017
EVAPORATION RATE:	FASTER THAN N-BUTYL ACETATE	VOLATILE BY VOLUME:	85.7-90.7%	VOLATILE BY WEIGHT:	77.5-85.7%
ODOR:	SOLVENT ODOR	APPEARANCE:	OPAQUE LIQUID	SOLUBILITY:	UNKNOWN

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:	FLASH POINT:	LOWER EXPLOSIVE LIMIT:
OSHA: FLAMMABLE LIQUID-CLASS IA	< - 25° F	1.0%
DOT: FLAMMABLE COMPRESSED GAS (SHIPPED UNDER CONSUMER COMMODITY ORM-D)	(TAGLIABUE CLOSED CUP)	UPPER EXPLOSIVE LIMIT: 12.8%
EXTINGUISHING MEDIA:	DRY CHEMICAL CARBON DIOXIDE FOAM	

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents Under Pressure. Do Not Use Or Store Near Sources Of Heat, Sparks Or Open Flame. Keep Away From Any Source Of Heat Such As Sunlight, Heaters Or Stoves That Could Cause The Container To Burst. Do Not Puncture Or Incinerate. Do Not Crush Or Place In A Garbage Compactor. Do Not Store Above 120° F. Aerosol Containers May Explode When Exposed To Extreme Heat. Product Vapors Are Heavier Than Air And May Travel A Long Distance To A Source Of Ignition And Flashback.

SPECIAL FIREFIGHTING PROCEDURES: Full Protective Equipment Including Self-contained Breathing Apparatus To Avoid Inhalation Of Vapors Should Be Used. Water Spray Should Not Be Used Except To Keep Down Vapors Or Cool Closed Containers To Prevent Build-up Of Pressure. If Water is Used, Fog Nozzles Are Preferred.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION, DERMAL

EFFECTS OF OVER EXPOSURE: INHALATION: Exposure To High Concentrations Of Vapors May Cause Dizziness, Breathing Difficulty, Headaches Or Respiratory Irritation. Extremely High Concentrations May Cause Drowsiness, Staggering, Confusion, Unconsciousness, Coma Or Death. High Concentrations Of Vapors May Be Irritating To The Throat And Lungs. Prolonged Inhalation Of Dusts Containing Free Silica May Result In The Development Of A Disabling Pulmonary Fibrosis (Lung Disease) Known As Silicosis. SKIN CONTACT: Repeated And Prolonged Contact With The Skin May Cause Allergic Dermatitis. May Cause Skin Irritation. EYE CONTACT: May Cause Eye Irritation. INGESTION: Moderately Toxic. May Cause Stomach Discomfort, Nausea, Vomiting, Diarrhea, And Narcosis.

087-20019

EFFECTS OF CHRONIC OVEREXPOSURE: Chronic Overexposure To A Component Or Components In This Material Has Been Found To Cause The Following Effects In Laboratory Animals: Kidney Damage, Eye Damage, Liver Damage, Anemia. Chronic Overexposure To A Component Or Components In This Product Has Been Suggested As A Cause Of The Following Effects In Humans: Cardiac Abnormalities. Reports Have Associated Repeated And Prolonged Overexposure To Solvents With Permanent Brain And Nervous System Damage.

SECTION V - HEALTH HAZARD DATA

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None Generally Recognized.

EMERGENCY AND FIRST AID PROCEDURES: INHALATION OVEREXPOSURE: Move Person To Fresh Air. If Breathing Stops, Apply Artificial Respiration And Seek Medical Attention. EYE CONTACT: Flush With Large Quantities Of Water For At Least 15 Minutes. SKIN CONTACT: Wash Affected Area Thoroughly With Soap And Water. Seek Medical Attention. Remove Contaminated Clothing. Launder Contaminated Clothing Before Reuse. INGESTION: Since This Product May Contain Materials Which Can Cause Lung Damage If Aspirated Into The Lungs, The Decision Whether To Induce Vomiting Or Not Must Be Made By A Physician After Careful Consideration Of All Materials Ingested.

SECTION VI - REACTIVITY DATA

Stability:	This Product Is Stable Under Normal Storage Conditions.
Hazardous Polymerization:	Will Not Occur Under Normal Conditions.
Hazardous Decomposition Products:	Thermal Decomposition May Produce Carbon Dioxide, Carbon Monoxide, and Unidentifiable Organic Materials.
Conditions To Avoid:	Avoid Contact With Heat, Sparks and Open Flame.
Incompatibility:	Strong Oxidizing Agents, Aluminum Flake Can React Violently With Halogenated Hydrocarbons Including Halogenated Fire Extinguishing Agents. Aluminum Flake Can Also React With Some Acids, Caustic Solutions.

SECTION VII - SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:	Remove All Sources Of Ignition. Avoid Heat, Sparks, Flames, And Anything Which Could Cause Fire. Ventilate Area Of Spill And Adjacent Low-Lying Areas. Avoid Breathing Solvent Vapors. Remove With Inert Absorbent Materials And Non-Sparking Tools.
Waste Disposal Method:	Place In Closed Containers. Dispose Of Product In Accordance With Local, County, State, And Federal Regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

Respiratory Protection:	If Workplace Exposure Limits Are Exceeded For Any Component (See Section II For Hazardous Components And Exposure Limits), A NIOSH/OSHA Approved Respirator Suitable For Components Listed Is Recommended.
Ventilation:	Sufficient Ventilation, In Volume And Pattern, Should Be Provided To Keep Air Contamination Below Current Applicable OSHA Permissible Exposure Limit Or ACGHI's TLV Limit.
Protective Gloves:	Chemical Resistant Plastic Or Rubber Gloves Are Recommended For Prolonged Or Repeated Contact.
Eye Protection:	Chemical Goggles With Side Shields Or Face Shield Are Recommended If Contact With Eyes Is Likely.
Other Protective Equipment:	Appropriate Impervious Clothing Is Recommended If Prolonged Or Repeated Contact Is Likely.
Hygienic Practices:	Wash Hands Before Eating Or Smoking. Smoke In Designated Areas Only.

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storage:	Store In A Cool Dry Area With Ventilation Suitable For Storing Materials Shown In Section II. Store In A Cool Place Away From Direct Sunlight Or Any Source Of Ignition. Do Not Store At Temperatures Above 120 Degrees F.
Other Precautions:	Intentional Misuse By Deliberately Concentrating And Inhaling The Contents Of This Product Can Be Harmful Or Fatal.

SECTION X - HMIS RATINGS

Health:	2
Flammability:	4
Reactivity:	0
Personal Protection:	G

SECTION XI - DISCLAIMER

The Information Contained Herein Is, To The Best Of Our Knowledge And Belief, Accurate. However, Since The Conditions Of Handling And Use Are Beyond Our Control, We Make No Guarantee Of Results, And Assume No Liability For Damages Incurred By Use Of This Material. It Is The Responsibility Of The User To Comply With All Applicable Federal, State And Local Laws And Regulations.