



M562-1478 UNIVERSAL COLOR BROWN VAN DYKE

MATERIAL SAFETY DATA SHEET

RPM Wood Finishes Group
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EMERGENCY PHONE (CHEM TREC): 1-800-424-9300
FOR ALL INTERNATIONAL TRANSPORTATION ACCIDENTS. 1-703-527-3887 (collect)

Health: 2 Flammability: 2 Reactivity 0

PRODUCT NAME: M562-1478 UNIVERSAL COLOR BROWN VAN DYKE

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 10/08/05
SUPERCEDES: 04/10/04
MSDS NO. M562-1478

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
iron oxide	21-30	1332-37-2	ACGIH TLV: 5mg/M3 TWA OSHA STEL: 10 ppm (iron Oxide Fume as Fe)
aliphatic petroleum distillates	21-30	64742-88-7	No PEL established
alkyd resin solids	11-20	PROPRIETARY	No PEL established
carbon black	1-10	1333-86-4	3.5 mg/m3 TWA
aliphatic hydrocarbons	1-10	8052-41-3	500 ppm TWA; 2900 mg/m3 TWA
LEAD	<1	7439-92-1	No PEL established
Quartz	<1	14808-60-7	see Table Z-3
ARSENIC	<1	7440-38-2	organic compounds, as As: 0.5 mg/m3 TWA
CADMIUM	<1	7440-43-9	dust: 0.2 mg/m3 TWA; C 0.6 mg/m3; apply only to exempt operations
	91-100		

III. HAZARDS IDENTIFICATION

Routes of Entry: inhalation, ingestion., Skin contact., Eye contact., Absorption.
Medical Conditions Aggravated: Respiratory disease including asthma and bronchitis. Eye disease. Kidney disease. Skin disease including eczema and sensitization. Digestive tract disease. Liver disease.

Immediate (Acute) Health Effects

Inhalation: Slightly irritating to the respiratory tract. Can cause severe central nervous system depression (including unconsciousness). Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. No hazard in normal industrial use.

Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Skin Absorption: Can be absorbed through the skin but exposure must be extensive before adverse health effects occur. Highly toxic if absorbed through the skin. Likely to cause significant systemic damage even if small quantities are absorbed through skin. May be fatal if a large quantity is absorbed. Toxic if absorbed through the skin. Likely to cause significant systemic damage.

Ingestion: Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

Target Organ Acute Toxicity:

Iron oxide dust and fume	respiratory system
Carbon black	respiratory system, eyes, lymphatic cancer
Stoddard solvent	skin, eyes, CNS, respiratory system, kidneys
Lead	GI tract, CNS, kidneys, blood, gingival tissue, eyes
Silica, crystalline	respiratory system, eyes (in animals: lung cancer)
Arsenic (inorganic compounds)	liver, kidneys, skin, lungs, lymphatic system, lung and lymphatic cancer
Cadmium dust	respiratory system, kidneys, blood, prostate and lung cancer

Long-Term (Chronic) Health Effects:

Carcinogenicity: Contains a substance that is a probable cancer hazard based on human studies.

Reproductive and Developmental Toxicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Skin Contact: Prolonged or repeated contact may cause irritation. Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: Upon prolonged or repeated contact, dust contact can cause mechanical irritation. Upon prolonged or repeated contact, can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Skin Absorption: Upon prolonged or repeated exposure, highly toxic if absorbed through the skin. Likely to cause significant systemic damage and may be fatal.

Target Organ Chronic Toxicity: Eyes. Respiratory Tract. Kidneys. Skin. Nervous System. Blood. Digestive Tract. Liver. Lungs.

Supplemental Health Hazard Information: No additional health information available.

IV. FIRST AID

Inhalation:	Remove to fresh air. Get medical attention immediately. Have a trained individual administer humidified oxygen. If not breathing, give artificial respiration.
Eyes:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel. Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Wash with soap and water.
Ingestion:	No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.
Notes to MD:	No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point:	142 (CALC.) °F
Fire Hazards:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
Extinguishing Media:	Use methods suitable to fight surrounding fire. Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.
Fire Fighting Instructions:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use methods for the surrounding fire. Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.
Hazardous Combustion Products:	Carbon monoxide Toxic fumes. Hydrogen Toxic gases

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
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**Spill Mitigation Procedures
General Methods:**

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

VII. HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Avoid contact with material. Minimize dust generation and accumulation. Remove contaminated clothing and wash before reuse. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Use spark-proof tools and explosion-proof equipment. Avoid creating dusts as an explosive dust air mixture can be created at high concentrations. If dusts are created, ensure no sources of ignition are present. Take precautionary measures to prevent electrostatic discharges. Harmful or irritating material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

Storage:

Keep away from sources of ignition. Keep away from food and drinking water. Keep container closed when not in use. Keep away from heat, sparks, and flame. Store in a cool dry place. Isolate from incompatible materials.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls:

Explosion proof exhaust ventilation should be used. Facilities storing or using this material should be equipped with an eyewash and safety shower. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Protective Equipment

Respiratory Tract:

Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage should be implemented.

Eyes:

Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

IX. PHYSICAL DATA

Physical State: COLORED LIQUID
Odor: OILY HYDROCARBON
Solids Vol %: 56.5229
Solids Wt %: 72.2094

Material VOC lbs/gal: 2.7476
Material VOC gms/l: 329.9648
Coatings VOC lbs/gal: 2.7476
Coatings VOC gms/l: 329.9648
Weight per gallon lbs: 9.9094

VOC data per US EPA guidelines. State and local variations may apply.

X. STABILITY AND REACTIVITY

Stability Information: Stable under normal conditions.
Conditions to Avoid: High temperatures. Avoid: heat, sparks, flame and oxidizing agents. None known.
Chemical Incompatibility: Strong oxidizing agents. Peroxides. Metals. Strong acids. Strong reducing agents. Chlorinated compounds. Nitrogen oxides. Acids. Moisture.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
Carbon black	1333-86-4	Oral LD50 Rat : >15400 mg/kg; Dermal LD50 Rabbit : >3 gm/kg
Arsenic	7440-38-2	Oral LD50 Rat : 763 mg/kg; Oral LD50 Mouse : 145 mg/kg
Cadmium	7440-43-9	Inhalation LC50 Rat : 25 mg/m3/30M; Oral LD50 Rat : 2330 mg/kg; Oral LD50 Mouse : 890 mg/kg

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): No data available. This material is not expected to be harmful to the ecology.

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Potential EPA Waste Codes: If discarded, this product is considered a RCRA ignitable waste, D001.

Components Subject to USEPA Land Disposal Restrictions:

Lead	7439-92-1	0.01 %
Arsenic	7440-38-2	0.00 %
Cadmium	7440-43-9	100.00 %
		0.00 %

XIV. TRANSPORTATION INFORMATION

DOT Flammable liquids, n.o.s., 3, UN 1993, III (contains)
 See 49CFR 172.101 for Special Provisions, Packaging, and Quantity Limitations.

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
Lead	SARA 313 Reportable:	7439-92-1	0.01
Arsenic	SARA 313 Reportable:	7440-38-2	0.00
Cadmium	SARA 313 Reportable:	7440-43-9	100.00
			0.00
Mercury	SARA 313 Reportable:	7439-97-6	0.00

Carbon Black	California Proposition 65 Cancer List:	1333-86-4	3.17
Lead	California Proposition 65 Cancer List:	7439-92-1	0.01
Quartz	California Proposition 65 Cancer List:	14808-60-7	0.00
Arsenic	California Proposition 65 Cancer List:	7440-38-2	0.00
Cadmium	California Proposition 65 Cancer List:	7440-43-9	100.00
			0.00
Lead	California Proposition 65 Developmental Toxicity:	7439-92-1	0.01
Cadmium	California Proposition 65 Developmental Toxicity:	7440-43-9	100.00
			0.00
Mercury	California Proposition 65 Developmental Toxicity:	7439-97-6	0.00
Lead	California Proposition 65 Reproductive - Male:	7439-92-1	0.01
Lead	California Proposition 65 Reproductive - Female:	7439-92-1	0.01
Cadmium	California Proposition 65 Reproductive - Female:	7440-43-9	100.00
			0.00
iron oxide	New Jersey Right To Know:	1332-37-2	29.94
aliphatic petroleum distillates	New Jersey Right To Know:	64742-88-7	26.26
alkyd resin solids	New Jersey Right To Know:	PROPRIETARY	15.89
carbon black	New Jersey Right To Know:	1333-86-4	3.17
aliphatic hydrocarbons	New Jersey Right To Know:	8052-41-3	1.53

XVI. ADDITIONAL INFORMATION

Other Information:

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MSDS glossary.