Material Safety Data Sheet

Revision Date: *07-Nov-2007* **Revision Number:** *1*

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **SUPER SPEC HP COLORANTS**
Product Code **P91**
Product Class COLORANT
Color All

Manufacturer
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 201-573-9600
www.benjaminmoore.com

Emergency Telephone Number(s)
CHEMTREC: 800-424-9300

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Iron oxide	1309-37-1	65
Titanium dioxide	13463-67-7	60
Propylene glycol monomethyl ether acetate	108-65-6	45
Barium sulfate	7727-43-7	35
C.I. Pigment Green 7	1328-53-6	20
Carbon black	1333-86-4	20
Manganese Dioxide	1313-13-9	10
Silicon dioxide, wax coated	112926-00-8	5
Talc	14807-96-6	5
Xylene	1330-20-7	5
2-Methoxy-1-propanol acetate	70657-70-4	1
Silica, crystalline	14808-60-7	1
Ethyl benzene	100-41-4	0.5

3. HAZARDS IDENTIFICATION

Emergency Overview

WARNING

Irritating to eyes. Irritating to skin. Irritating to respiratory system. May be harmful if swallowed.

Appearance liquid **Odor** solvent

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principal Routes of Exposure Eye contact, skin contact and inhalation.

Acute Effects

Eyes Moderately irritating to the eyes.

Skin Irritating to skin.

Inhalation High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects.

Ingestion Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects Repeated contact may cause allergic reactions in very susceptible persons.

Contains: Crystalline Silica which has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

HMIS **Health:** 2* **Flammability:** 2 **Reactivity:** 1 **PPE:** -

HMIS Legend
0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard
X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, Benjamin Moore & Co., has choosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

4. FIRST AID MEASURES

General Advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. Call a physician immediately.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.
Notes To Physician	Treat symptomatically
Protection Of First-Aiders	Remove all sources of ignition.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective Equipment And Precautions For Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific Hazards Arising From The Chemical	Combustible material. Closed containers may rupture if exposed to fire or extreme heat. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.
Sensitivity To Mechanical Impact	No
Sensitivity To Static Discharge	Yes
Flash Point Data	
Flash Point (°F)	110
Flash Point (°C)	43.3
Flash Point Method	PMCC
Flammability Limits In Air	
Lower Explosion Limit	Not available
Upper Explosion Limit	Not available

NFPA **Health:** 2 **Flammability:** 2 **Instability:** 1 **Special:** Not Applicable

NFPA Legend
0 - Not Hazardous
1 - Slightly
2 - Moderate
3 - High
4 - Severe

The ratings assigned by Benjamin Moore & Co. are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods For Clean-Up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

Other Information None known

7. HANDLING AND STORAGE

Handling Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Wear personal protective equipment. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open flames, hot surfaces and sources of ignition.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep in properly labeled containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

Hazardous Components

Chemical Name	ACGIH	OSHA
Iron oxide	TWA: 5 mg/m^3 Respirable fraction.	PEL 10 mg/m^3 Fume. PEL 5 mg/m^3 Respirable fraction. PEL 15 mg/m^3 Total dust.

Chemical Name	ACGIH	OSHA
Titanium dioxide	TWA: 10 mg/m^3	PEL 15 mg/m^3 Total dust.
Propylene glycol monomethyl ether acetate	N/E	N/E
Barium sulfate	TWA: 0.5 mg/m^3 Ba TWA: 10 mg/m^3	PEL 5 mg/m^3 Respirable fraction. PEL 15 mg/m^3 Total dust. PEL 0.5 mg/m^3
C.I. Pigment Green 7	N/E	N/E
Carbon black	TWA: 3.5 mg/m^3	PEL 3.5 mg/m^3
Manganese Dioxide	TWA: 0.2 mg/m^3 Mn	Ceiling 5 mg/m^3 Mn
Silicon dioxide, wax coated	N/E	N/E
Talc	TWA: 2 mg/m^3 Respirable fraction.	N/E
Xylene	TWA 100 ppm STEL: 150 ppm	PEL 435 mg/m^3 / 100 ppm
2-Methoxy-1-propanol acetate	N/E	N/E
Silica, crystalline	TWA: 0.025 mg/m^3 Respirable fraction.	N/E
Ethyl benzene	TWA 100 ppm STEL: 125 ppm	PEL 435 mg/m^3 / 100 ppm

Legend
ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
OSHA - Occupational Safety & Health Administration Exposure Limits
N/E - Not Established

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.

Skin Protection Long sleeved clothing. Protective gloves.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.

Hygiene Measures Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid
Odor solvent
Density (lbs/gal) 9.2 - 16.4
Specific Gravity 1.104 - 1.969
pH Not available
Viscosity (centistokes) Not available
Evaporation Rate Not available
Vapor Pressure Not available
Vapor Density Not available
Wt. % Solids 47.6 - 78.2
Vol. % Solids 40.0 - 55.5
Wt. % Volatiles 21.8 - 52.4
Vol. % Volatiles 44.5 - 60.0
VOC (g/L) < 999.0
Boiling Point (°F) Not available
Boiling Point (°C) Not available
Freezing Point (°F) Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Freezing Point (°C)	Not available
Flash Point (°F)	110
Flash Point (°C)	43.3
Flash Point Method	PMCC
Upper Explosion Limit	Not available
Lower Explosion Limit	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions. Hazardous polymerisation does not occur.
Conditions To Avoid	Keep away from open flames, hot surfaces, static electricity and sources of ignition.
Incompatible Materials	Incompatible with strong acids and bases and strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors.
Possibility Of Hazardous Reactions	None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product
Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Component

Iron oxide
LD50 Oral: > 5000 mg/kg (Rat) vendor data

Titanium dioxide
LD50 Oral: > 24000 mg/kg (Rat)
LD50 Dermal: > 10000 mg/m³ (Rabbit)
LC50 Inhalation (Dust): > 6.82 mg/L (Rat, 4 hr.)

Propylene glycol monomethyl ether acetate
LD50 Oral: 8532 mg/kg (Rat)
LD50 Dermal: > 5000 mg/kg (Rabbit)
LC50 Inhalation (Vapor): > 4345 ppm

Barium sulfate
LD50 Oral: > 5,000 g/kg (Rat) vendor data

Carbon black
LD50 Oral: > 15400 mg/kg (Rat)
LD50 Dermal: > 3000 mg/kg (Rabbit)

Xylene
LD50 Oral: 4300 mg/kg (Rat)
LD50 Dermal: > 1700 mg/kg (Rabbit)
LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.)

2-Methoxy-1-propanol acetate
LD50 Dermal: > 5000 mg/kg (Rabbit)
LC50 Inhalation (Vapor): > 100 ppm (Rat)

Silica, crystalline
LD50 Oral: > 22,500 mg/kg (Rat) vendor data

Ethyl benzene
LD50 Oral: 3500 mg/kg (Rat)
LD50 Dermal: 17800 µg/L (Rabbit)
LC50 Inhalation (Vapor): 55000 mg/m^3 (Rat, 2 hr.)

Chronic Toxicity

Carcinogenicity
The information below indicates whether each agency has listed any ingredient as a carcinogen:

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
Iron oxide		3 Classification not possible from current data.		
Titanium dioxide		2B Possible carcinogen.		

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
Carbon black		2B Possible carcinogen.		
Silicon dioxide, wax coated		3 Classification not possible from current data.		
Talc		3 Classification not possible from current data. 2B Possible carcinogen.		
Xylene		3 Classification not possible from current data.		
Silica, crystalline		1 Human carcinogen.	Known carcinogen.	
Ethyl benzene		2B Possible carcinogen.		

Legend
ACGIH - American Conference of Governmental Industrial Hygienists
IARC - International Agency for Research on Cancer
NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Product
Acute Toxicity to Fish
No information available

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants
No information available

Component
Acute Toxicity to Fish
No information available

Titanium dioxide
LC50: >1000 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates
No information available

12. ECOLOGICAL INFORMATION

Acute Toxicity to Aquatic Plants
No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with federal, state, and local regulations. Dry, empty containers may be recycled in a can recycling program. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO / IATA Not regulated

IMDG / IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

United States TSCA Yes - All components are listed or exempt.
Canada DSL No - Not all of the components are listed.
One or more component is listed on NDSL.

Federal Regulations

SARA 311/312 hazardous categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight % (max)
Manganese Dioxide	1313-13-9	10
Xylene	1330-20-7	5
Ethyl benzene	100-41-4	0.5

This product may contain trace amounts of (other) SARA reportable chemicals. Contact Benjamin Moore & Co. for further information.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:

Chemical Name	CAS-No	Weight % (max)
Manganese Dioxide	1313-13-9	10
Xylene	1330-20-7	5
Ethyl benzene	100-41-4	0.5

This product may contain trace amounts of (other) HAPs chemicals. Contact Benjamin Moore & Co. for further information.

State Regulations

California Proposition 65

This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Louisiana	Rhode Island
Iron oxide	X	X	X		X
Titanium dioxide	X	X	X		X
Barium sulfate	X	X	X		X
C.I. Pigment Green 7		X			
Carbon black	X	X	X		X
Manganese Dioxide		X			X
Silicon dioxide, wax coated	X	X	X		
Talc	X	X	X		X
Xylene	X	X	X		X
Silica, crystalline	X	X	X		
Ethyl benzene	X	X	X		X

Legend
X - Listed

16. OTHER INFORMATION

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By

Product Stewardship Department
Benjamin Moore & Co.
360 Route 206 - P.O. Box 4000
Flanders, NJ 07836
973-252-2593

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Disclaimer

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End of MSDS