

Material Safety Data Sheet

Revision Date: 05-Mar-2010 Revision Number: 2

PRODUCT AND COMPANY IDENTIFICATION

Product Name SUPER SPEC HP UNIVERSAL METAL PRIMER

Product Code KP0770

Product Class SOLVENT THINNED PAINT

Color Gray

Manufacturer Emergency Telephone Number(s)

Benjamin Moore & Co. CANUTEC: 613-996-6666 101 Paragon Drive

Montvale, NJ 07645 Phone: 201-573-9600 www.benjaminmoore.com

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Talc	14807-96-6	30 - 60%
Titanium dioxide	13463-67-7	7 - 13 %
2-Pentanone	107-87-9	7 - 13 %
n-Butyl acetate	123-86-4	5 - 10%
Xylene	1330-20-7	3 - 7%
Ethyl benzene	100-41-4	1 - 5%
Benzene, 1,3-dimethyl-	108-38-3	1 - 5%
Benzene, 1,4-dimethyl-	106-42-3	0.1 - 1.0%
Silica, crystalline	14808-60-7	0.1 - 1.0%
Cobalt bis(2-ethylhexanoate)	136-52-7	0.1 - 1.0%

3. HAZARDS IDENTIFICATION

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Emergency Overview

DANGER

Vapors may be irritating to eyes, nose, throat, and lungs. May cause skin irritation and/or dermatitis. Flammable.

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded.

Appearance liquid Odor solvent

Potential Health Effects

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

Acute Effects

EyesContact with eyes may cause irritation. **Skin**May cause skin irritation and/or dermatitis.

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. Small amounts of this product

aspirated into the respiratory system during ingestion or vomiting may cause mild to

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severe pulmonary injury, possibly progressing to death.

Chronic Effects Avoid repeated exposure

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: 3 Reactivity: 0 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

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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

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)

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and full protective gear.

Specific Hazards Arising From The Chemical Flammable. 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) 81
Flash Point (°C) 27
Flash Point Method PMCC

Flammability Limits In Air

Upper Explosion LimitNot availableLower Explosion LimitNot available

NFPA Health: 2 Flammability: 3 Instability: 0 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 PrecautionsUse personal protective equipment. Remove all sources of ignition.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not allow material to

contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if

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significant spillages cannot be contained.

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.

DANGER - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or

waste in a sealed water-filled metal container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Hazardous Components

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
Talc	2 mg/m³ - TWA	2 mg/m³ - TWA	2 mg/m³ - TWA particulate matter containing no asbestos and less than 1% crystalline silica	containing no asbestos and less than 1% crystalline	3 mg/m ³ - TWAEV

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Titanium dioxide	10 mg/m³ - TWA	10 mg/m³ - TWA	10 mg/m ³ - TWA	10 mg/m³ - TWAEV	10 mg/m³ -
Titaliiuiii dioxide	TO HIG/III - TVVA	TO HIG/III* - TVVA	3 mg/m ³ - TWA	TO mg/m - TVVALV	TWAEV
2-Pentanone	150 ppm - STEL	200 ppm - TWA 705 mg/m³ - TWA 250 ppm - STEL 881 mg/m³ - STEL	150 ppm - TWA 250 ppm - STEL	200 ppm - TWAEV 700 mg/m³ - TWAEV 250 ppm - STEV 880 mg/m³ - STEV	150 ppm - TWAEV 530 mg/m³ - TWAEV
n-Butyl acetate	150 ppm - TWA 200 ppm - STEL	150 ppm - TWA 713 mg/m³ - TWA 950 mg/m³ - STEL 200 ppm - STEL	20 ppm - TWA	150 ppm - TWAEV 710 mg/m³ - TWAEV 200 ppm - STEV 950 mg/m³ - STEV	150 ppm - TWAEV 713 mg/m³ - TWAEV 950 mg/m³ - STEV 200 ppm - STEV
Xylene	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 434 mg/m³ - TWA 150 ppm - STEL 651 mg/m³ - STEL	100 ppm - TWA 150 ppm - STEL	435 mg/m³ - TWAEV 100 ppm - TWAEV 650 mg/m³ - STEV 150 ppm - STEV	100 ppm - TWAEV 434 mg/m³ - TWAEV 651 mg/m³ - STEV 150 ppm - STEV
Ethyl benzene	100 ppm - TWA 125 ppm - STEL	100 ppm - TWA 434 mg/m³ - TWA 543 mg/m³ - STEL 125 ppm - STEL	100 ppm - TWA 125 ppm - STEL	100 ppm - TWAEV 435 mg/m³ - TWAEV 125 ppm - STEV 540 mg/m³ - STEV	100 ppm - TWAEV 434 mg/m³ - TWAEV 543 mg/m³ - STEV 125 ppm - STEV
Benzene, 1,3-dimethyl-	100 ppm - TWA 150 ppm - STEL	434 mg/m ³ - TWA 100 ppm - TWA 651 mg/m ³ - STEL 150 ppm - STEL	100 ppm - TWA 150 ppm - STEL	N/E	434 mg/m ³ - TWAEV 100 ppm - TWAEV 150 ppm - STEV 651 mg/m ³ - STEV
Benzene, 1,4-dimethyl-	100 ppm - TWA 150 ppm - STEL	434 mg/m ³ - TWA 100 ppm - TWA 150 ppm - STEL 651 mg/m ³ - STEL	100 ppm - TWA 150 ppm - STEL	N/E	100 ppm - TWAEV 434 mg/m³ - TWAEV 651 mg/m³ - STEV 150 ppm - STEV
Silica, crystalline	0.025 mg/m ³ - TWA	0.1 mg/m ³ - TWA	0.025 mg/m³ - TWA	0.10 mg/m³ - TWAEV designated substance regulation	0.1 mg/m³ - TWAEV
Cobalt bis(2- ethylhexanoate)	N/E	N/E	N/E	N/E	N/E

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

Alberta - Alberta Occupational Exposure Limits

British Columbia - British Columbia Occupational Exposure Limits

Ontario - Ontario Occupational Exposure Limits

Quebec - Quebec Occupational Exposure Limits

N/E - Not established

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective **Equipment**

Eye/Face Protection Skin Protection Respiratory Protection

Safety glasses with side-shields.

Long sleeved clothing. Protective gloves.

In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.

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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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

liauid **Appearance** Odor solvent 12.7 - 12.8 Density (lbs/gal) **Specific Gravity** 1.5 - 1.6Hq Not available Viscosity (centistokes) Not available **Evaporation Rate** Not available **Vapor Pressure** Not available **Vapor Density** Not available Wt. % Solids 75 - 85 Vol. % Solids 55 - 65 Wt. % Volatiles 15 - 25 Vol. % Volatiles 35 - 45 **VOC Regulatory Limit (g/L)** < 400 **Boiling Point (°F)** 255 **Boiling Point (°C)** 124 Not available

Freezing Point (°F) Not available Freezing Point (°C) Not available

Flash Point (°F) 81
Flash Point (°C) 27
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 ReactionsNone under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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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

Talc

Sensitization: No information available

Titanium dioxide

LD50 Oral: > 24000 mg/kg (Rat)

LD50 Dermal: > 10000 mg/m³ (Rabbit)

LC50 Inhalation (Dust): > 6.82 mg/L (Rat, 4 hr.)

2-Pentanone

LD50 Oral: 1600 mg/kg (Rat)

LD50 Dermal: 6500 mg/kg (Rabbit)

n-Butyl acetate

LD50 Oral: 10768 mg/kg (Rat)

LD50 Dermal: > 17600 mg/kg (Rabbit) LC50 Inhalation (Vapor): 390 ppm (Rat, 4 hr.) Sensitization: non-sensitizing (guinea pig)

Xylene

LD50 Oral: 4300 mg/kg (Rat)

LD50 Dermal: > 1700 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.) Sensitization: No sensitizing effects known.

Ethyl benzene

LD50 Oral: 3500 mg/kg (Rat)

LD50 Dermal: > 5000 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 55000 mg/m³ (Rat, 2 hr.)

Sensitization: No sensitizing effects known.

Benzene, 1,3-dimethyl-

LD50 Oral: 4988 mg/kg (Rat)

LD50 Dermal: 14100 µL/kg (Rabbit)

Benzene, 1,4-dimethyl-

LD50 Oral: 3910 mg/kg (Rat)

LC50 Inhalation (Vapor): 4550 ppm (Rat, 4 hr.)

Silica, crystalline

LD50 Oral: 500 mg/kg (Rat) vendor data

Chronic Toxicity

Carcinogenicity

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

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Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
Titanium dioxide		2B - Possible Human Carcinogen		Listed
Ethyl benzene	A3	2B - Possible Human Carcinogen		Listed
Silica, crystalline	A2	1 - Human Carcinogen	Known Human Carcinogen	Listed
Cobalt bis(2-ethylhexanoate)		2B - Possible Human Carcinogen		

- Crystalline Silica 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.
- Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."
- Cobalt and cobalt compounds are listed as possible human carcinogens by IARC (2B). However, there is inadequate evidence of the carcinogenicity of cobalt and cobalt compounds in humans.

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

Titanium dioxide

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

n-Butyl acetate

12. ECOLOGICAL INFORMATION

LC50: 18 mg/L (Fathead Minnow - 96 hr.)

<u>Xylene</u>

LC50: 13.5 mg/L (Rainbow Trout - 96 hr.)

Ethyl benzene

LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

n-Butyl acetate

EC50: 72.8 mg/L (Daphnia magna - 48 hr.)

Ethyl benzene

EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

Acute Toxicity to Aquatic Plants

n-Butyl acetate

EC50: 674.7 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

Ethyl benzene

EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with federal, state, provincial, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

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14. TRANSPORT INFORMATION

TDG

Proper Shipping Name Paint (Mixture)

Hazard Class

3

UN-No

UN1263

Packing Group III

ICAO / IATA Contact Benjamin Moore & Co. for further information.

IMDG / IMOContact Benjamin Moore & Co. for further information.

15. REGULATORY INFORMATION

International Inventories

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United States TSCA Yes - All components are listed or exempt.

Canada DSL Yes - All components are listed or exempt.

National Pollutant Release Inventory (NPRI)

NPRI Parts 1-4

This product contains the following Parts 1-4 NPRI chemicals:

Chemical Name	CAS-No	Weight % (max)
2-Pentanone	107-87-9	7 - 13 %
n-Butyl acetate	123-86-4	5 - 10%
Xylene	1330-20-7	3 - 7%
Ethyl benzene	100-41-4	1 - 5%
Benzene, 1,3-dimethyl-	108-38-3	1 - 5%
Benzene, 1,4-dimethyl-	106-42-3	0.1 - 1.0%
Cobalt bis(2-ethylhexanoate)	136-52-7	0.1 - 1.0%

This product may contain trace amounts of (other) NPRI Parts I-4 reportable chemicals. Contact Benjamin Moore & Co. for further information.

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

Chemical Name	CAS-No	Weight % (max)
n-Butyl acetate	123-86-4	5 - 10%
Xylene	1330-20-7	3 - 7%

This product may contain trace amounts of (other) NPRI Part 5 reportable chemicals. Contact Benjamin Moore & Co. for further information.

WHMIS Regulatory Status

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B2 Flammable liquid D2A Very toxic materials D2B Toxic materials



16. OTHER INFORMATION

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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 logging onto Health Canada @ http://www.hc-sc.gc.ca/iyh-vsv/prod/paint-peinture_e.html.

Prepared By Product Stewardship Department

Benjamin Moore & Co.

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Revision Summary No information available

Disclaimer

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End of MSDS