



Revision Date: 25-Apr-2017

Revision Number: 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Product Code Alternate Product Code Product Class Color Recommended use Restrictions on use

PREP ALL UNIVERSAL METAL PRIMER WHITE V132-01FR

A13201 SURFACE PREPARATION PRODUCT White Primers No information available

Manufactured For

Benjamin Moore & Co., Limited 8775 Keele Street Concord ON L4K 2N1 Phone: 1-800-361-5898 corotechcoatings.ca

Manufacturer

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 Phone: 800-225-5554 corotechcoatings.com Emergency Telephone Number(s) CANUTEC: 613-996-6666

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the Hazardous Products Regulations (HPR: SOR/2015-17)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 2
Physical hazard not otherwise classified	Category 1

Label elements

Odor solvent

Danger

Hazard statements Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause cancer Causes damage to organs through prolonged or repeated exposure May be fatal if swallowed and enters airways Highly flammable liquid and vapor Risk of spontaneous combustion



Appearance liquid

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/mist/vapors/spray

Do not eat, drink or smoke when using this product

Keep away from heat/sparks/open flames/hot surfaces, no smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/protective clothing/eye protection/face protection

Immediately after use, place rags, steel wool or waste used with this product in a sealed water-filled metal container or lay flat to dry.

Precautionary Statements - Response

If exposed or concerned get medical attention

Eyes

If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists get medical attention

Skin

If skin irritation or rash occurs get medical attention

If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water

Wash contaminated clothing before reuse

Ingestion

If swallowed immediately call a POISON CENTER or physician

Do NOT induce vomiting

Fire

In case of fire use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Materials such as rags used with this product may begin to burn by themselves. After use, put rags in water or lay flat to dry, then discard.

Other information

No information available

3. COMPOSITION INFORMATION ON COMPONENTS

Chemical Name	CAS-No	Weight % (max)
Silica, crystalline	14808-60-7	10 - 30%
Talc	14807-96-6	10 - 30%
Titanium dioxide	13463-67-7	7 - 13%
Xylene	1330-20-7	5 - 10%
Petroleum ether	8032-32-4	5 - 10%
Distillates, petroleum, hydrotreated light	64742-47-8	1 - 5%
Ethyl benzene	100-41-4	1 - 5%
Solvent naphtha, petroleum, light aromatic	64742-95-6	1 - 5%
Stoddard solvent	8052-41-3	1 - 5%
1,2,4-Trimethylbenzene	95-63-6	1 - 5%
Methyl ethyl ketoxime	96-29-7	0.1 - 0.25%

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. If eye irritation persists, consult a specialist.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Wash clothing before reuse. Destroy contaminated articles such as shoes.
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.
Protection Of First-Aiders	Use personal protective equipment.
Most Important Symptoms/Effects	May cause allergic skin reaction.
Notes To Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause flash fire.
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.
Hazardous Combustion Products	Burning may result in carbon dioxide, carbon monoxide and other combustion products of varying composition which may be toxic and/or irritating.
Specific Hazards Arising From The Chemical	Flammable. Flash back possible over considerable distance. Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if exposed to fire or extreme heat. 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) Flash Point (°C) Flash Point Method Flammability Limits In Air	50 10 PMCC
Lower Explosion Limit Upper Explosion Limit	Not available Not available
<u>NFPA</u> Health: 2 Flammability: 3 Inst	ability: 0 Special: Not Applicable
NFPA Legend 0 - Not Hazardous 1 - Slightly	

- 2 Moderate
- 3 High
- 4 Severe

The ratings assigned 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

Remove all sources of ignition. Take precautions to prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal

	protective equipment.
Other Information	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 significant spillages cannot be contained.
Environmental Precautions	See Section 12 for additional Ecological Information.
Methods For Clean-Up	Dam up. Soak up with inert absorbent material. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-up by providing adequate ventilation during and after use.
	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 heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children.
	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.
Incompatible Materials	Incompatible with strong acids and bases and strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

No exposure limits have been established for this product.

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
Silica, crystalline	0.025 mg/m ³ - TWA	0.025 mg/m ³ - TWA	0.025 mg/m ³ - TWA	0.10 mg/m ³ - TWA	0.1 mg/m ³ - TWAEV
Talc	2 mg/m ³ - TWA	2 mg/m ³ - TWA	2 mg/m ³ - TWA	2 mg/m³ - TWA	3 mg/m ³ - TWAEV
Titanium dioxide	10 mg/m ³ - TWA	10 mg/m³ - TWA	10 mg/m³ - TWA 3 mg/m³ - TWA	10 mg/m ³ - TWA	10 mg/m ³ - TWAEV

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Xylene	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 434 mg/m ³ - TWA 150 ppm - STEL 651 mg/m ³ - STEL	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 150 ppm - STEL	100 ppm - TWAEV 434 mg/m ³ - TWAEV 150 ppm - STEV 651 mg/m ³ - STEV
Petroleum ether	N/E	300 ppm - TWA 1400 mg/m³ - TWA	-	N/E	300 ppm - TWAEV 1370 mg/m ³ - TWAEV
Distillates, petroleum, hydrotreated light	N/E	N/E	200 mg/m ³ - TWA Skin absorption can contribute to overall exposure.	N/E	N/E
Ethyl benzene	20 ppm - TWA	100 ppm - TWA 434 mg/m ³ - TWA 125 ppm - STEL 543 mg/m ³ - STEL	20 ppm - TWA	20 ppm - TWA	100 ppm - TWAEV 434 mg/m ³ - TWAEV 125 ppm - STEV 543 mg/m ³ - STEV
Stoddard solvent	100 ppm - TWA	100 ppm - TWA 572 mg/m³ - TWA	290 mg/m ³ - TWA 580 mg/m ³ - STEL	525 mg/m³ - TWA	100 ppm - TWAEV 525 mg/m ³ - TWAEV

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

Personal Protective Equipment

Eye/Face Protection

Skin Protection Respiratory Protection Ensure adequate ventilation, especially in confined areas.

Safety glasses with side-shields If splashes are likely to occur, wear: Tightly fitting safety goggles Protective gloves and impervious clothing. Use only with adequate ventilation. 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.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor **Odor Threshold** Density (lbs/gal) **Specific Gravity** Hα Viscosity (cps) Solubility Water Solubility **Evaporation Rate** Vapor Pressure Vapor Density Wt. % Solids Vol. % Solids Wt. % Volatiles Vol. % Volatiles VOC Regulatory Limit (g/L) **Boiling Point (°F)**

liquid solvent No information available 11.9 - 12.0 1.42 - 1.44 No information available 70 - 80 45 - 55 20 - 30 45 - 55 < 400 240

Boiling Point (°C) Freezing Point (°F) Freezing Point (°C) Flash Point (°C) Flash Point (°C) Flash Point Method Flammability (solid, gas) Upper Explosion Limit Lower Explosion Limit Autoignition Temperature (°F) Autoignition Temperature (°C) Decomposition Temperature (°C) Partition Coefficient (n-octanol/water) 116 No information available No information available 50 10 PMCC Not applicable Not applicable No information available No information available

10. STABILITY AND REACTIVITY

Reactivity Not Applicable **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. Sparks. Elevated temperature. Incompatible with strong acids and bases and strong **Incompatible Materials** 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

Product Information Information on likely routes of exposure

Principal Routes of Exposure

Acute Toxicity Product Information Eye contact, skin contact and inhalation.

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.

Information on toxicological effects

Symptoms

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eye contact

Skin contact

Causes serious eye irritation. May cause redness, itching, and pain. May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis.

Inhalation	Harmful by 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. Harmful if swallowed. 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 severe pulmonary injury, possibly progressing to death.
Sensitization:	May cause an allergic skin reaction.
Neurological Effects	No information available.
Mutagenic Effects	No information available.
Reproductive Effects	No information available.
Developmental Effects	No information available.
Target Organ Effects	No information available.
STOT - single exposure	May cause disorder and damage to the. Respiratory system.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure if inhaled. Contains: Crystalline Silica which has been determined to be carcinogenic to humans by IARC 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. Causes damage to organs through prolonged or repeated exposure.
Other adverse effects Aspiration Hazard	No information available. May be harmful if swallowed and enters airways. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2113 mg/kg
ATEmix (dermal)	8432 mg/kg
ATEmix (inhalation-dust/mist)	13.7 mg/L

Component

Silica, crystalline LD50 Oral: 500 mg/kg (Rat) Titanium dioxide LD50 Oral: > 10000 mg/kg (Rat) Xylene LD50 Oral: 4300 mg/kg (Rat) LD50 Dermal: > 1700 mg/kg (Rabbit) LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.) Petroleum ether LC50 Inhalation (Vapor): 3400 ppm (Rat, 4 hr.) Distillates, petroleum, hydrotreated light LD50 Oral: > 5,000 mg/kg (Rat) LD50 Dermal: > 3,000 mg/kg (Rabbit) Ethyl benzene LD50 Oral: mg/kg (Rat) LD50 Dermal: > mg/kg (Rabbit)

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LC50 Inhalation (Vapor): mg/m³ (Rat, 2 hr.) <u>Solvent naphtha, petroleum, light aromatic</u> LD50 Oral: 8400 mg/kg (Rat) <u>Stoddard solvent</u> LD50 Oral: > 5,000 mg/kg (Rat) LD50 Dermal: > 3160 mg/kg (Rabbit) LC50 Inhalation (Vapor): > 6.1 mg/L (Rat) <u>1,2,4-Trimethylbenzene</u> LD50 Oral: 5000 mg/kg (Rat) LC50 Inhalation (Vapor): 18000 mg/m³ (Rat, 4 hr.) <u>Methyl ethyl ketoxime</u> LD50 Oral: 930 mg/kg (Rat) LD50 Dermal: 200 µL/kg (Rabbit) LC50 Inhalation (Vapor): > 4.8 mg/L (Rat)

Chronic Toxicity

Carcinogenicity

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

Chemical Name	IARC	NTP
	1 - Human Carcinogen	Known Human Carcinogen
Silica, crystalline		-
	2B - Possible Human Carcinogen	
Titanium dioxide	Ĵ,	
	2B - Possible Human Carcinogen	
Ethyl benzene		

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."

Legend

IARC - International Agency for Research on Cancer NTP - National Toxicity Program OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

Product Information

Acute Toxicity to Fish

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Persistence / Degradability

No information available.

Bioaccumulation / Accumulation No information available.

Mobility in Environmental Media No information available.

Ozone No information available

Component

Acute Toxicity to Fish

<u>Titanium dioxide</u> LC50: > 1000 mg/L (Fathead Minnow - 96 hr.) <u>Xylene</u> LC50: 13.5 mg/L (Rainbow Trout - 96 hr.) <u>Ethyl benzene</u> LC50: 12.1 mg/L (Fathead Minnow - 96 hr.) <u>Methyl ethyl ketoxime</u> LC50: 48 mg/L (Bluegill sunfish - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

Ethyl benzene EC50: 1.8 mg/L (Daphnia magna - 48 hr.) Methyl ethyl ketoxime EC50: 750 mg/L (Daphnia magna - 48 hr.)

Acute Toxicity to Aquatic Plants

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

13. DISPOSAL CONSIDERATIONS

Waste Disposal MethodDispose 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.Empty Container WarningEmptied containers may retain product residue. Follow
label warnings even after container is emptied. Residual
vapors may explode on ignition.

14. TRANSPORT INFORMATION

TDG Proper Shipping Name Hazard Class UN-No Packing Group

Paint 3 UN1263 II Description

ICAO / IATA

IMDG / IMO

UN1263, Paint, 3, II

Contact the preparer for further information.

Contact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

TSCA: United States	Yes - All components are listed or exempt.
DSL: Canada	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)	NPRI Parts 1-4
Xylene	1330-20-7	5 - 10%	Listed
Ethyl benzene	100-41-4	1 - 5%	Listed
1,2,4-Trimethylbenzene	95-63-6	1 - 5%	Listed

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

Chemical Name	CAS-No	Weight % (max)	NPRI Part 5
Xylene	1330-20-7	5 - 10%	Listed
Petroleum ether	8032-32-4	5 - 10%	Listed
Distillates, petroleum, hydrotreated light	64742-47-8	1 - 5%	Listed
Solvent naphtha, petroleum, light aromatic	64742-95-6	1 - 5%	Listed
Stoddard solvent 1,2,4-Trimethylbenzene	8052-41-3 95-63-6	1 - 5% 1 - 5%	Listed Listed

WHMIS Regulatory Status

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. OTHER INFORMATION						
<u>HMIS</u> -	Health: 2*	Flammability: 3	Reactivity: 0	PPE: -		
HMIS Legend 0 - Minimal Hazard						
1 - Slight Ha						
2 - Moderate						
3 - Serious H 4 - Severe H						
* - Chronic H						
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, the preparer, has chosen 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.

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/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

Prepared By	Product Stewardship Department Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 855-724-6802
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Reason For Revision	Not available

Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

END OF SAFETY DATA SHEET