



Material Safety Data Sheet

Revision Date: 25-Apr-2016

Revision Number: 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name AURA EXTERIOR WATERBORNE PAINT SATIN FINISH BASE 2
Product Code K6312X
Alternate Product Code K6312X
Product Class WATER THINNED PAINT
Color All

Manufacturer Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 855-724-6802
www.benjaminmoore.com

Emergency Telephone Number(s)
CANUTEC: 613-996-6666

2. COMPOSITION INFORMATION ON COMPONENTS

Chemical Name	CAS-No	Weight % (max)
Titanium dioxide	13463-67-7	10 - 30%
Nepheline syenite	37244-96-5	1 - 5%
Zinc oxide	1314-13-2	1 - 5%
Kaolin	1332-58-7	1 - 5%
Silica, amorphous	7631-86-9	1 - 5%
Hexanedioic acid, dihydrazide	1071-93-8	0.25 - 0.5%
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	104810-48-2	0.1 - 0.25%
Sodium nitrite	7632-00-0	0.1 - 0.25%
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester	41556-26-7	0.1 - 0.25%
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxoprop	104810-47-1	0.1 - 0.25%

3. HAZARDS IDENTIFICATION

Emergency Overview

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

May cause allergic skin reaction.

Appearance liquid

Odor little or no odor

Potential Health Effects

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

Acute Effects

Eyes

May cause slight irritation.

Skin

May cause skin irritation and/or dermatitis.

May cause allergic skin reaction.

Inhalation

May cause irritation of respiratory tract.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Repeated contact may cause allergic reactions in very susceptible persons.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known.

HMIS - **Health:** 1* **Flammability:** 0 **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, 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.

4. FIRST AID MEASURES

General Advice

No hazards which require special first aid measures.

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation

Move to fresh air. If symptoms persist, call a physician.

Ingestion

Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.

Notes To Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	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	Closed containers may rupture if exposed to fire or extreme heat.
Sensitivity To Mechanical Impact	No
Sensitivity To Static Discharge	No
Flash Point Data	
Flash Point (°F)	Not applicable
Flash Point (°C)	Not applicable
Flash Point Method	Not applicable
Flammability Limits In Air	
Upper Explosion Limit	Not applicable
Lower Explosion Limit	Not applicable
NFPA	Health: 1 Flammability: 0 Instability: 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	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
Environmental Precautions	Prevent further leakage or spillage if safe to do so.
Methods For Clean-Up	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
Other Information	None known

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage	Keep container tightly closed. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
Titanium dioxide	10 mg/m ³ - TWA	10 mg/m ³ - TWA	10 mg/m ³ - TWA 3 mg/m ³ - TWA	10 mg/m ³ - TWA	10 mg/m ³ - TWA EV
Nepheline syenite	N/E	N/E	N/E	10 mg/m ³ - TWA EV	N/E
Zinc oxide	2 mg/m ³ - TWA 10 mg/m ³ - STEL	2 mg/m ³ - TWA 10 mg/m ³ - STEL	2 mg/m ³ - TWA 10 mg/m ³ - STEL	2 mg/m ³ - TWA 10 mg/m ³ - STEL	10 mg/m ³ - TWA EV 5 mg/m ³ - TWA EV 10 mg/m ³ - STEV
Kaolin	2 mg/m ³ - TWA	2 mg/m ³ - TWA	2 mg/m ³ - TWA particulate matter containing no asbestos and less than 1% crystalline silica	2 mg/m ³ - TWA EV containing no asbestos and less than 1% crystalline silica	5 mg/m ³ - TWA EV

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

Safety glasses with side-shields.

Skin Protection

Protective gloves and impervious clothing.

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment.

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	liquid
Odor	little or no odor
Density (lbs/gal)	10.3 - 10.7
Specific Gravity	1.25 - 1.27
pH	Not available
Viscosity (centistokes)	Not available
Evaporation Rate	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Wt. % Solids	45 - 55
Vol. % Solids	35 - 45
Wt. % Volatiles	45 - 55
Vol. % Volatiles	55 - 65

VOC Regulatory Limit (g/L)	< 50
Boiling Point (°F)	212
Boiling Point (°C)	100
Freezing Point (°F)	32
Freezing Point (°C)	0
Flash Point (°F)	Not applicable
Flash Point (°C)	Not applicable
Flash Point Method	Not applicable
Upper Explosion Limit	Not available
Lower Explosion Limit	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions To Avoid	Prevent from freezing.
Incompatible Materials	No materials to be especially mentioned.
Hazardous Decomposition Products	None under normal use.
Possibility Of Hazardous Reactions	Hazardous polymerisation will not occur.

Acute Toxicity

No information available

Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)

LD50 Oral: 5000 mg/kg (Rat)

LC50 Inhalation (Dust): > 5700 mg/m³ (Rat, 4 hr.)

LD50 Oral: > 5000 mg/kg (Rat)

LD50 Oral: > 5000 mg/kg (Rat)

LD50 Dermal: 2,000 mg/kg (Rabbit)

LC50 Inhalation (Dust): > 2 mg/L

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CC=CC=C348C349=CC=CC=C349C350=CC=CC=C350C351=CC=CC=C351C352=CC=CC=C352C353=CC=CC=C353C354=CC=CC=C354C355=CC=CC=C355C356=CC=CC=C356C357=CC=CC=C357C358=CC=CC=C358C359=CC=CC=C3

May cause sensitization by skin contact

LD50 Oral: 180 mg/kg (Rat)

LC50 Inhalation (Dust): 5.5 mg/m³ (Rat, 4 hr.)

Sensitization:

May cause sensitization by skin contact

*c1ccc(cc1)[C@H]2C(=O)OCC2c3ccc(cc3)[C@H]4C(=O)OCC4c5ccc(cc5)[C@H]6C(=O)OCC6c7ccc(cc7)[C@H]8C(=O)OCC8c9ccc(cc9)[C@H]10C(=O)OCC10c11ccc(cc11)[C@H]12C(=O)OCC12c13ccc(cc13)[C@H]14C(=O)OCC14c15ccc(cc15)[C@H]16C(=O)OCC16c17ccc(cc17)[C@H]18C(=O)OCC18c19ccc(cc19)[C@H]20C(=O)OCC20c21ccc(cc21)[C@H]22C(=O)OCC22c23ccc(cc23)[C@H]24C(=O)OCC24c25ccc(cc25)[C@H]26C(=O)OCC26c27ccc(cc27)[C@H]28C(=O)OCC28c29ccc(cc29)[C@H]30C(=O)OCC30c31ccc(cc31)[C@H]32C(=O)OCC32c33ccc(cc33)[C@H]34C(=O)OCC34c35ccc(cc35)[C@H]36C(=O)OCC36c37ccc(cc37)[C@H]38C(=O)OCC38c39ccc(cc39)[C@H]40C(=O)OCC40c41ccc(cc41)[C@H]42C(=O)OCC42c43ccc(cc43)[C@H]44C(=O)OCC44c45ccc(cc45)[C@H]46C(=O)OCC46c47ccc(cc47)[C@H]48C(=O)OCC48c49ccc(cc49)[C@H]50C(=O)OCC50c51ccc(cc51)[C@H]52C(=O)OCC52c53ccc(cc53)[C@H]54C(=O)OCC54c55ccc(cc55)[C@H]56C(=O)OCC56c57ccc(cc57)[C@H]58C(=O)OCC58c59ccc(cc59)[C@H]60C(=O)OCC60c61ccc(cc61)[C@H]62C(=O)OCC62c63ccc(cc63)[C@H]64C(=O)OCC64c65ccc(cc65)[C@H]66C(=O)OCC66c67ccc(cc67)[C@H]68C(=O)OCC68c69ccc(cc69)[C@H]70C(=O)OCC70c71ccc(cc71)[C@H]72C(=O)OCC72c73ccc(cc73)[C@H]74C(=O)OCC74c75ccc(cc75)[C@H]76C(=O)OCC76c77ccc(cc77)[C@H]78C(=O)OCC78c79ccc(cc79)[C@H]80C(=O)OCC80c81ccc(cc81)[C@H]82C(=O)OCC82c83ccc(cc83)[C@H]84C(=O)OCC84c85ccc(cc85)[C@H]86C(=O)OCC86c87ccc(cc87)[C@H]88C(=O)OCC88c89ccc(cc89)[C@H]90C(=O)OCC90c91ccc(cc91)[C@H]92C(=O)OCC92c93ccc(cc93)[C@H]94C(=O)OCC94c95ccc(cc95)[C@H]96C(=O)OCC96c97ccc(cc97)[C@H]98C(=O)OCC98c99ccc(cc99)[C@H]100C(=O)OCC100c101ccc(cc101)[C@H]102C(=O)OCC102c103ccc(cc103)[C@H]104C(=O)OCC104c105ccc(cc105)[C@H]106C(=O)OCC106c107ccc(cc107)[C@H]108C(=O)OCC108c109ccc(cc109)[C@H]110C(=O)OCC110c111ccc(cc111)[C@H]112C(=O)OCC112c113ccc(cc113)[C@H]114C(=O)OCC114c115ccc(cc115)[C@H]116C(=O)OCC116c117ccc(cc117)[C@H]118C(=O)OCC118c119ccc(cc119)[C@H]120C(=O)OCC120c121ccc(cc121)[C@H]122C(=O)OCC122c123ccc(cc123)[C@H]124C(=O)OCC124c125ccc(cc125)[C@H]126C(=O)OCC126c127ccc(cc127)[C@H]128C(=O)OCC128c129ccc(cc129)[C@H]130C(=O)OCC130c131ccc(cc131)[C@H]132C(=O)OCC132c133ccc(cc133)[C@H]134C(=O)OCC134c135ccc(cc135)[C@H]136C(=O)OCC136c137ccc(cc137)[C@H]138C(=O)OCC138c139ccc(cc139)[C@H]140C(=O)OCC140c141ccc(cc141)[C@H]142C(=O)OCC142c143ccc(cc143)[C@H]144C(=O)OCC144c145ccc(cc145)[C@H]146C(=O)OCC146c147ccc(cc147)[C@H]148C(=O)OCC148c149ccc(cc149)[C@H]150C(=O)OCC150c151ccc(cc151)[C@H]152C(=O)OCC152c153ccc(cc153)[C@H]154C(=O)OCC154c155ccc(cc155)[C@H]156C(=O)OCC156c157ccc(cc157)[C@H]158C(=O)OCC158c159ccc(cc159)[C@H]160C(=O)OCC160c161ccc(cc161)[C@H]162C(=O)OCC162c163ccc(cc163)[C@H]164C(=O)OCC164c165ccc(cc165)[C@H]166C(=O)OCC166c167ccc(cc167)[C@H]168C(=O)OCC168c169ccc(cc169)[C@H]170C(=O)OCC170c171ccc(cc171)[C@H]172C(=O)OCC172c173ccc(cc173)[C@H]174C(=O)OCC174c175ccc(cc175)[C@H]176C(=O)OCC176c177ccc(cc177)[C@H]178C(=O)OCC178c179ccc(cc179)[C@H]180C(=O)OCC180c181ccc(cc181)[C@H]182C(=O)OCC182c183ccc(cc183)[C@H]184C(=O)OCC184c185ccc(cc185)[C@H]186C(=O)OCC186c187ccc(cc187)[C@H]188C(=O)OCC188c189ccc(cc189)[C@H]190C(=O)OCC190c191ccc(cc191)[C@H]192C(=O)OCC192c193ccc(cc193)[C@H]194C(=O)OCC194c195ccc(cc195)[C@H]196C(=O)OCC196c197ccc(cc197)[C@H]198C(=O)OCC198c199ccc(cc199)[C@H]200C(=O)OCC200c201ccc(cc201)[C@H]202C(=O)OCC202c203ccc(cc203)[C@H]204C(=O)OCC204c205ccc(cc205)[C@H]206C(=O)OCC206c207ccc(cc207)[C@H]208C(=O)OCC208c209ccc(cc209)[C@H]210C(=O)OCC210c211ccc(cc211)[C@H]212C(=O)OCC212c213ccc(cc213)[C@H]214C(=O)OCC214c215ccc(cc215)[C@H]216C(=O)OCC216c217ccc(cc217)[C@H]218C(=O)OCC218c219ccc(cc219)[C@H]220C(=O)OCC220c221ccc(cc221)[C@H]222C(=O)OCC222c223ccc(cc223)[C@H]224C(=O)OCC224c225ccc(cc225)[C@H]226C(=O)OCC226c227ccc(cc227)[C@H]228C(=O)OCC228c229ccc(cc229)[C@H]230C(=O)OCC230c231ccc(cc231)[C@H]232C(=O)OCC232c233ccc(cc233)[C@H]234C(=O)OCC234c235ccc(cc235)[C@H]236C(=O)OCC236c237ccc(cc237)[C@H]238C(=O)OCC238c239ccc(cc239)[C@H]240C(=O)OCC240c241ccc(cc241)[C@H]242C(=O)OCC242c243ccc(cc243)[C@H]244C(=O)OCC244c245ccc(cc245)[C@H]246C(=O)OCC246c247ccc(cc247)[C@H]248C(=O)OCC248c249ccc(cc249)[C@H]250C(=O)OCC250c251ccc(cc251)[C@H]252C(=O)OCC252c253ccc(cc253)[C@H]254C(=O)OCC254c255ccc(cc255)[C@H]256C(=O)OCC256c257ccc(cc257)[C@H]258C(=O)OCC258c259ccc(cc259)[C@H]260C(=O)OCC260c261ccc(cc261)[C@H]262C(=O)OCC262c263ccc(cc263)[C@H]264C(=O)OCC264c265ccc(cc265)[C@H]266C(=O)OCC266c267ccc(cc267)[C@H]268C(=O)OCC268c269ccc(cc269)[C@H]270C(=O)OCC270c271ccc(cc271)[C@H]272C(=O)OCC272c273ccc(cc273)[C@H]274C(=O)OCC274c275ccc(cc275)[C@H]276C(=O)OCC276c277ccc(cc277)[C@H]278C(=O)OCC278c279ccc(cc279)[C@H]280C(=O)OCC280c281ccc(cc281)[C@H]282C(=O)OCC282c283ccc(cc283)[C@H]284C(=O)OCC284c285ccc(cc285)[C@H]286C(=O)OCC286c287ccc(cc287)[C@H]288C(=O)OCC288c289ccc(cc289)[C@H]290C(=O)OCC290c291ccc(cc291)[C@H]292C(=O)OCC292c293ccc(cc293)[C@H]294C(=O)OCC294c295ccc(cc295)[C@H]296C(=O)OCC296c297ccc(cc297)[C@H]298C(=O)OCC298c299ccc(cc299)[C@H]300C(=O)OCC300c301ccc(cc301)[C@H]302C(=O)OCC302c303ccc(cc303)[C@H]304C(=O)OCC304c305ccc(cc305)[C@H]306C(=O)OCC306c307ccc(cc307)[C@H]308C(=O)OCC308c309ccc(cc309)[C@H]310C(=O)OCC310c311ccc(cc311)[C@H]312C(=O)OCC312c313ccc(cc313)[C@H]314C(=O)OCC314c315ccc(cc315)[C@H]316C(=O)OCC316c317ccc(cc317)[C@H]318C(=O)OCC318c319ccc(cc319)[C@H]32

Sensitization:

May cause sensitization by skin contact

Carcinogenicity

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

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen Listed
Titanium dioxide		2B - Possible Human Carcinogen		
Sodium nitrite		2A - Probable Human Carcinogen		

- 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

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 Information

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.)

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with federal, state, provincial, 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

TDG

Not regulated

ICAO / IATA

Not regulated

IMDG / IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: United States

Yes - All components are listed or exempt.

DSL: Canada

No - Not all of the components are listed.

One or more component is listed on NDSL.

National Pollutant Release Inventory (NPRI)

NPRI Parts 1- 4

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

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>	<u>NPRI Parts 1- 4</u>
Zinc oxide	1314-13-2	1 - 5%	Listed
Sodium nitrite	7632-00-0	0.1 - 0.25%	Listed

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

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

D2A Very toxic materials

D2B Toxic materials



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 logging onto Health Canada @ http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

Prepared By

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855-724-6802

Revision Date:

25-Apr-2016

Revision Summary

No information available

Disclaimer

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K6312X

End of MSDS