SAFETY DATA SHEET

Issuing Date 04-May-2015 **Revision Date:** 04-May-2015 **Revision Number:** 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name **COLOR SAMPLES - BASE 1**
Product Code **1271X**
Product Class WATER THINNED PAINT
Color All
Recommended use Paint
Restrictions on use No information available

Manufacturer
Benjamin Moore & Co.
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Montvale, NJ 07645
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Section 2: HAZARDS IDENTIFICATION

2.1.

REGULATION (EC) No 1272/2008

Skin sensitization	Category 1 - (H317)

Classification according to EU Directives 67/548/EEC or 1999/45/EC
For the full text of the R phrases mentioned in this Section, see Section 16

Symbol(s)
Xi - Irritant

R-code(s)
R43

2.2.

Product Identifier
Contains 1,2-Benzisothiazolin-3-one, 2-Methyl-4-isothiazolin-3-one, 5-Chloro-2-methyl-4-isothiazolin-3-one

Signal word
Warning

Hazard statements
H317 - May cause an allergic skin reaction

Precautionary Statements - EU (§28, 1272/2008)
P280 - Wear eye protection/ face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3.

General Hazards No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2 Mixtures

Chemical Name	EINECS/ELINCS No.	CAS-No	Weight % (max)	EU Classification	EU - GHS Substance Classification	REACH No.
Titanium dioxide	236-675-5	13463-67-7	25	Unclassified		Not available
Silica, amorphous	231-545-4	7631-86-9	5	Unclassified		Not available
Propylene glycol	200-338-0	57-55-6	5	Unclassified		Not available
Aluminum hydroxide	244-492-7	21645-51-2	5	Unclassified		Not available
1,2-Benzisothiazolin-3-one	220-120-9	2634-33-5	0.1	Xn; R22 Xi; R38-41 R43 N; R50	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	Not available
2-Methyl-4-isothiazolin-3-one	220-239-6	2682-20-4	0.005	C;R34 Xn;R22 T;R23 R43 N; R50	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Eye Dam. 1 (H318) STOT SE 3 (H335) Aquatic Acute 1 (H400)	Not available

5-Chloro-2-methyl-4-isothiazolin-3-one	247-500-7	26172-55-4	0.005	T; R23/24/25 C; R34 R43 N; R50-53	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Acute Tox. 3 (H331) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not available

For the full text of the R phrases mentioned in this Section, see Section 16
Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1.

Description of 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.

4.2.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects May cause allergic skin reaction

4.3.

Indication of any immediate medical attention and special treatment needed

Notes To Physician Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1.

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media	No information available.

5.2.

Specific Hazards Arising From The Chemical	Closed containers may rupture if exposed to fire or extreme heat.
Sensitivity To Static Discharge	No.
Sensitivity To Mechanical Impact	No.

5.3.

Protective Equipment And Precautions For Firefighters	Wear self-contained breathing apparatus and protective suit.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1.

Personal Precautions	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
Other Information	Observe all relevant local and international regulations.

6.2.

Environmental Precautions	Prevent further leakage or spillage if safe to do so.

6.3.

Methods For Containment	Aborb with inert material and place in suitable container for disposal.
Methods For Clean-Up	Clean contaminated surface thoroughly.

6.4.

Other information	See Section 12 for additional information.

Section 7: HANDLING AND STORAGE

7.1.

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.
Hygiene Measures	Wash thoroughly after handling.

7.2.

Storage	Keep container tightly closed. Keep out of the reach of children.

7.3.

Specific Uses Architectural coating. Apply as directed. Refer to product label / literature for specific instructions.

Risk Management Methods (RMM) Not Applicable.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1.

Exposure limits

Chemical Name	EU	United Kingdom	Belgium	Bulgaria	Cyprus	Greece
Titanium dioxide 13463-67-7		TWA: 10 mg/m³ TWA: 4 mg/m³ STEL: 30 mg/m³ STEL: 12 mg/m³	TWA: 10 mg/m³	TWA: 10.0 mg/m³		TWA: 10 mg/m³ TWA: 5 mg/m³
Silica, amorphous 7631-86-9		TWA: 2.4 mg/m³ TWA: 6 mg/m³ STEL: 18 mg/m³ STEL: 7.2 mg/m³				
Propylene glycol 57-55-6		TWA: 10 mg/m³ TWA: 150 ppm TWA: 474 mg/m³ STEL: 1422 mg/m³ STEL: 30 mg/m³ STEL: 450 ppm				
Aluminum hydroxide 21645-51-2		TWA: 10 mg/m³ TWA: 4 mg/m³ STEL: 12 mg/m³ STEL: 30 mg/m³		TWA: 1.5 mg/m³ TWA: 10.0 mg/m³		

Component	Ireland	Latvia	Lithuania	Poland	Romania	Spain
Titanium dioxide 13463-67-7 (22.8408)	TWA: 10 mg/m³ TWA: 4 mg/m³	TWA: 10 mg/m³	TWA: 5 mg/m³	TWA: 10.0 mg/m³ STEL: 30 mg/m³	TWA: 10 mg/m³ STEL: 15 mg/m³	TWA: 10 mg/m³
Silica, amorphous 7631-86-9 (2.2622)	TWA: 6 mg/m³ TWA: 2.4 mg/m³	TWA: 1 mg/m³				
Propylene glycol 57-55-6 (1.9603)	TWA: 150 ppm TWA: 470 mg/m³ TWA: 10 mg/m³	TWA: 7 mg/m³	IPRV: 7 mg/m³			
Aluminum hydroxide 21645-51-2 (1.01198)		TWA: 6 mg/m³	IPRV: 6 mg/m³	NDS: 1.2 mg/m³ NDS: 2.5 mg/m³		

8.2.

Occupational exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment.

Eye Protection Safety glasses with side-shields.

Skin Protection Lightweight protective clothing.

Hand protection Impervious gloves.

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1.

Appearance	liquid
Odor	little or no odor
Odor Threshold	No information available

Property	Values	Remarks/ Method
Density (g/L)	1294 - 1342	None known
Relative Density	1.29 - 1.35	None known
pH	No information available	None known
Viscosity (cps)	No information available	None known
Solubility	No information available	None known
Water Solubility	No information available	None known
Evaporation Rate	No information available	None known
Vapor Pressure	No information available	None known
Vapor Density	No information available	None known
Wt. % Solids	45 - 55	None known
Vol. % Solids	30 - 40	None known
Wt. % Volatiles	45 - 55	None known
Vol. % Volatiles	60 - 70	None known
VOC Regulatory Limit (g/L)	100	None known
Boiling Point (°C)	100	None known
Freezing Point (°C)	0	None known
Melting Point (°C)	No information available	None known
Flash Point (°C)	Not applicable	None known
Flammability (solid, gas)	No information available	None known
Upper Explosion Limit	No information available	None known
Lower Explosion Limit	No information available	None known
Autoignition Temperature (°C)	No information available	None known
Decomposition Temperature (°C)	No information available	None known
Partition Coefficient (n-octanol/water)	No information available	None known
Explosive properties	No information available	None known
Oxidizing Properties	No information available	None known

Section 10: STABILITY AND REACTIVITY

10.1.

Reactivity Not Applicable.

10.2.

Chemical Stability Stable under normal conditions.

10.3.

Possibility Of Hazardous Reactions None under normal conditions of use.

10.4.

Conditions To Avoid Prevent from freezing.

10.5.

Incompatible Materials No materials to be especially mentioned.

10.6.

Hazardous Decomposition Products None under normal use.

Section 11: TOXICOLOGICAL INFORMATION

11.1.

Product Information

Inhalation There is no data available for this product.

Eye contact There is no data available for this product.

Skin contact There is no data available for this product.

Ingestion There is no data available for this product.

Acute Toxicity

Component

Chemical Name	LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)		
Silica, amorphous 7631-86-9	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h
Propylene glycol 57-55-6	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	
Aluminum hydroxide 21645-51-2	> 5000 mg/kg (Rat)		
1,2-Benzisothiazolin-3-one 2634-33-5	= 1020 mg/kg (Rat)		
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4	= 481 mg/kg (Rat)		= 1.23 mg/L (Rat) 4 h

Skin corrosion/irritation No information available.

Eye damage/irritation No information available.

Sensitization: May cause sensitization by skin contact.

Mutagenic Effects No information available.

Carcinogenic effects
The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	EU Annex I Carcinogen Information	IARC
Titanium dioxide 13463-67-7		2B - Possible 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."

IARC - International Agency for Research on Cancer

Reproductive Effects No information available.

Developmental Effects No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Neurological Effects No information available.

Target Organ Effects: No information available.

Symptoms No information available.

Aspiration Hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

The environmental impact of this product has not been fully investigated

Chemical Name	Freshwater Algae Data	Freshwater Fish Species Data	Water Flea Data
Silica, amorphous 7631-86-9	EC50 = 440 mg/L (72 h)	LC50 = 5000 mg/L Brachydanio rerio (96 h)	EC50 = 7600 mg/L (48 h)
Propylene glycol 57-55-6	EC50 = 19000 mg/L (96 h)	LC50 41 - 47 mL/L Oncorhynchus mykiss (96 h) LC50 = 51400 mg/L Pimephales promelas (96 h) LC50 = 51600 mg/L Oncorhynchus mykiss (96 h) LC50 = 710 mg/L Pimephales promelas (96 h)	EC50 > 1000 mg/L (48 h)
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4	EC50 0.11 - 0.16 mg/L (72 h)	LC50 = 1.6 mg/L Oncorhynchus mykiss (96 h)	EC50 0.12 - 0.3 mg/L (48 h) EC50 0.71 - 0.99 mg/L (48 h) EC50 = 4.71 mg/L (48 h)

12.2.

Persistence / Degradability No information available.

12.3.

Bioaccumulation / Accumulation No information available.

Chemical Name	log Pow =
1,2-Benzisothiazolin-3-one 2634-33-5	1.3
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4	0.75

12.4.

Mobility in soil No information available.

Mobility in Environmental Media No information available.

12.5.

PBT and vPvB assessment No information available.

12.6.

Other adverse effects No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1.

Waste from Residues/Unused Products Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

EWC waste disposal No No information available

Other Information Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

IMDG / IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

IATA Not regulated

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number
Silica, amorphous 7631-86-9	RG 25
Propylene glycol 57-55-6	RG 84

1,2-Benzisothiazolin-3-one 2634-33-5	RG 65

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

AICS: Australia	No - Not all of the components are listed.
DSL: Canada	Yes - All components are listed or exempt.
EINECS: European Union	No - Not all of the components are listed.
ENCS : Japan	No - Not all of the components are listed.
IECS : China	No - Not all of the components are listed.
KECL: South Korea	No - Not all of the components are listed.
PICCS: Philippines	No - Not all of the components are listed.
TSCA: United States	Yes - All components are listed or exempt.

Legend

AICS - Australian Inventory of Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
IECSC - China Inventory of Existing Chemical Substances
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

15.2.

Chemical Safety Report No information available

Section 16: OTHER INFORMATION

Text of R phrases mentioned in Sections 2 & 3

R22 - Harmful if swallowed
R38 - Irritating to skin
R41 - Risk of serious damage to eyes
R43 - May cause sensitization by skin contact
R50 - Very toxic to aquatic organisms
R34 - Causes burns
R23 - Toxic by inhalation
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage
H331 - Toxic if inhaled
H317 - May cause an allergic skin reaction
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Classification procedure:	Expert judgment and weight of evidence determination
Key literature references and sources for data	Data from internal and external sources
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End of Safety Data Sheet