



Benjamin Moore®

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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

Product Name ELEMENT GUARD EXTERIOR FL -BASE 1
Product Code U7631X
Product Class Water thinned paint
Color All
Unique Formula Identifier (UFI) 2923-40U4-U00G-ANHT
Recommended use Paint
Restrictions on use No information available

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Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin sensitization	Category 1A - (H317)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Product Identifier

Contains 5-Chloro-2-methyl-3(2H)-isothiazolone mixture with 2-methyl-3(2H)-isothiazolone (3:1), Carbamic acid, butyl-, 3-iodo-2-propynyl ester, 2-Methyl-4-isothiazolin-3-one

**Signal word**

Warning

Hazard statements

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

EUH208 - Contains 1,2-Benzisothiazolin-3-one May produce an allergic reaction

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards**Other hazards** Harmful to aquatic life**General Hazards** No information available**3. Composition/information on ingredients****3.1 Substances**

Not applicable

3.2 Mixtures

Chemical name	EINECS/ELINCS No.	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Titanium dioxide	236-675-5 257-372-4	13463-67-7	>=15 - <20	Not available	01-2119489379-17-01 68
Diatomaceous earth	-	61790-53-2	>=1 - <5	Not available	Not available
Carbamic acid, butyl-, 3-iodo-2-propynyl ester	259-627-5	55406-53-6	>=0.1 - <0.3	Acute Tox. 4 (H302) Acute Tox. 3 (H331) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not available
1,2-Benzisothiazolin-3-one	220-120-9	2634-33-5	>=0.01 - < 0.05	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 - <0.01	Skin Corr. 1B (H314) Eye Dam 1 (H318) Skin Sens. 1A (H317)	Not available

				Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic chronic 1 (H410)	
5-Chloro-2-methyl-3(2H)-isothiazolone mixture with 2-methyl-3(2H)-isothiazolone (3:1)	247-500-7 220-239-6	55965-84-9	>=0.001 - <0.005	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H330) Skin Corr. 1C (H314) Eye Dam 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not available
5-Chloro-2-methyl-4-isothiazolin-3-one	247-500-7	26172-55-4	>=0.0005 - <0.001	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Acute Tox. 3 (H331) Skin Sens. 1 (H317) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not available

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

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 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.

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. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available.

5.2. Special hazards arising from the substance or mixture

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. Advice for firefighters

Protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective suit.
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Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

Environmental precautions	Prevent spreading of vapors through sewers, ventilation systems and confined areas.
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6.3. Methods and material for containment and cleaning up

Methods for Containment	Absorb with inert material and place in suitable container for disposal.
Methods for Cleaning Up	Clean contaminated surface thoroughly.

6.4. Reference to other sections

Other information	See Section 12 for additional information.
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Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)**Specific Uses**

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

Risk Management Methods (RMM)

Not Applicable.

8. Exposure controls/personal protection**8.1. Control parameters**

Chemical name	European Union	Belgium	Bulgaria	Cyprus	France	Ireland	
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m ³	TWA: 10.0 mg/m ³ TWA: 1.0 mg/m ³	-	TWA: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³	
Diatomaceous earth 61790-53-2	-	TWA: 3 mg/m ³ TWA: 10 mg/m ³	TWA: 1.0 mg/m ³	-	-	-	
Chemical name	Germany TRGS	Greece	Hungary	Iceland	Italy MDLPS	Latvia	
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m ³ TWA: 5 mg/m ³	-	6 mg/m ³ TWA	-	TWA: 10 mg/m ³	
Diatomaceous earth 61790-53-2	TWA: 4 mg/m ³	-	-	-	-	-	
Chemical name	Lithuania	Netherlands	Poland	Romania	Spain	Sweden	United Kingdom
Titanium dioxide 13463-67-7	TWA: 5 mg/m ³	-	STEL: 30 mg/m ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³ STEL: 15 mg/m ³	TWA: 10 mg/m ³	TLV: 5 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
Diatomaceous earth 61790-53-2	-	-	TWA: 10 mg/m ³ TWA: 2 mg/m ³	-	-	-	TWA: 1.2 mg/m ³ STEL: 3.6 mg/m ³

8.2. Exposure controls**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. Information on basic physical and chemical properties****Appearance**

liquid

Odor

little or no odor

Odor Threshold

No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
Density (g/L)	1306 - 1354	None known	
Relative Density	1.30 - 1.35		
pH	No information available	None known	
Viscosity (cps)	No information available	None known	
Solubility(ies)	No information available	None known	
Water solubility	No information available	None known	
Evaporation Rate	No information available	None known	
Vapor pressure @20 °C (kPa)	No information available	None known	
Relative 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	
Boiling Point (°C)	100	None known	
Freezing Point (°C)	0	None known	
Melting Point (°C)	No information available	None known	
Pour Point	No information available	None known	
Flash Point (°C)	Not applicable	None known	
Flammability (solid, gas)	No information available	None known	
Upper flammability limit:	No information available	None known	
Lower flammability limit:	No information available	None known	
Autoignition Temperature (°C)	No information available	None known	
Decomposition Temperature (°C)	No information available	None known	
Partition coefficient	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

Reactivity Not Applicable.

10.2. Chemical stability

Chemical Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal conditions of use.

10.4. Conditions to avoid

Conditions to avoid Prevent from freezing.

10.5. Incompatible materials

Incompatible Materials No materials to be especially mentioned.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None under normal conditions of use.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

Inhalation	There is no data available for this product.
Eye contact	There is no data available for this product.
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	There is no data available for this product.

Acute Toxicity**Component Information**

Caution - This mixture contains a substance not yet fully tested

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)		
Carbamic acid, butyl-, 3-iodo-2-propynyl ester 55406-53-6	= 1470 mg/kg (Rat)	> 2000 mg/kg (Rat)	= 0.67 mg/L (Rat) 4 h = 0.63 mg/L (Rat) 4 h = 0.99 mg/L (Rat) 4 h
1,2-Benzisothiazolin-3-one 2634-33-5	= 1020 mg/kg (Rat)	> 2000 mg/kg (Rat)	
2-Methyl-4-isothiazolin-3-one 2682-20-4		= 200 mg/kg (Rabbit)	
5-Chloro-2-methyl-3(2H)-isothiazolo ne mixture with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	= 53 mg/kg (Rat) = 481 mg/kg (Rat) 232 - 249 mg/kg (Rat) = 120 mg/kg (Rat)	= 87.12 mg/kg (Rabbit) = 200 mg/kg (Rabbit)	= 1.23 mg/L (Rat) 4 h = 0.11 mg/L (Rat) 4 h
5-Chloro-2-methyl-4-isothiazolin-3-o ne 26172-55-4	= 481 mg/kg (Rat) = 53 mg/kg (Rat)	= 87.12 mg/kg (Rabbit)	= 1.23 mg/L (Rat) 4 h

Skin corrosion/irritation	No information available.
Eye damage/irritation	No information available.
Sensitization	May cause an allergic skin reaction.
Mutagenic Effects	No information available.

Carcinogenic effects

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

Chemical name	European Union	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."

Legend

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	Algae/aquatic plants	Fish	Crustacea
Diatomaceous earth 61790-53-2		LC50 >10000 mg/L Cyprinus carpio (72h)	
Carbamic acid, butyl-, 3-iodo-2-propynyl ester 55406-53-6		LC50: 0.049 - 0.079mg/L (96h, Oncorhynchus mykiss) LC50: 0.05 - 0.089mg/L (96h, Oncorhynchus mykiss) LC50: 0.14 - 0.32mg/L (96h, Lepomis macrochirus) LC50: 0.18 - 0.23mg/L (96h, Pimephales promelas)	
5-Chloro-2-methyl-3(2H)-isothiazolone mixture with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	EC50: 0.11 - 0.16mg/L (72h, Pseudokirchneriella subcapitata) EC50: 0.03 - 0.13mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =1.6mg/L (96h, Oncorhynchus mykiss)	EC50: =4.71mg/L (48h, Daphnia magna) EC50: 0.12 - 0.3mg/L (48h, Daphnia magna) EC50: 0.71 - 0.99mg/L (48h, Daphnia magna)
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4	EC50: 0.11 - 0.16mg/L (72h, Pseudokirchneriella subcapitata) EC50: 0.03 - 0.13mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =1.6mg/L (96h, Oncorhynchus mykiss)	EC50: =4.71mg/L (48h, Daphnia magna) EC50: 0.12 - 0.3mg/L (48h, Daphnia magna) EC50: 0.71 - 0.99mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence / Degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Chemical name	Partition coefficient
1,2-Benzisothiazolin-3-one 2634-33-5	1.3
5-Chloro-2-methyl-3(2H)-isothiazolone mixture with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	-0.71 - 0.75
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4	-0.71 - 0.75

12.4. Mobility in soil

Mobility in soil No information available.

Mobility in Environmental Media No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

No information available.

Chemical name	PBT and vPvB assessment
Titanium dioxide 13463-67-7	The substance is not PBT / vPvB PBT assessment does not apply
Carbamic acid, butyl-, 3-iodo-2-propynyl ester 55406-53-6	The substance is not PBT / vPvB PBT assessment does not apply
1,2-Benzisothiazolin-3-one 2634-33-5	The substance is not PBT / vPvB
2-Methyl-4-isothiazolin-3-one 2682-20-4	The substance is not PBT / vPvB
5-Chloro-2-methyl-3(2H)-isothiazolone mixture with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	The substance is not PBT / vPvB

12.6. Other adverse effects**Other adverse effects**

No information available

Section 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****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**

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****National regulations****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
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Diatomaceous earth 61790-53-2	RG 25
1,2-Benzisothiazolin-3-one 2634-33-5	RG 65

Germany**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**AIIC****DSL: Canada****EINECS: European Union Inventory of Existing Substances****ENCS****IECSC****KECL****PICCS****TSCA: United States**

No - Not all of the components are listed.
No - Not all of the components are listed.
One or more component is listed on NDSL.
No - Not all of the components are listed.

No - Not all of the components are listed.
No - Not all of the components are listed.
No - Not all of the components are listed.
No - Not all of the components are listed.
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 Chemical Substances/European 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 assessment**Chemical Safety Report**

No information available

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under section 3**

H301 - Toxic if swallowed
H302 - Harmful if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H331 - Toxic if inhaled
H372 - Causes damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

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