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BIOSHIELD

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name/designation:

Clay Paint

Article No.:

#12

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Interior Surface Coating

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Eco Design Co./ Bioshield

1583 Pacheco Street

Santa Fe, NM 87505

USA

Telephone: +1-505-438 3448

Telefax: +1-505-438 0199

E-mail: info@bioshieldpaint.com

Website: www.bioshieldpaint.com

1.4. Emergency telephone number

During business hours Mo-Th 9-5 Fr 9-4 MST: 1-505-438 3448

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Supplemental Hazard information (EU)

EUH208	Contains 2-Methyl-2H-Isothiazol-3-on + 1,2-Benzisothiazol-3(2H)-on.. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

2.3. Other hazards



Adverse environmental effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 2682-20-4 EC No.: 220-239-6	2-methyl-2H-isothiazol-3-one The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].  Danger H302-H314-H317-H331-H400	0 - 1 Wt %
CAS No.: 2634-33-5 EC No.: 220-120-9	1,2-benzisothiazol-3(2H)-one Acute Tox. 4, Aquatic Acute 1, Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1  Danger H302-H315-H317-H318-H400	0 - 1 Wt %

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice. Change contaminated, saturated clothing.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion:

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). If swallowed, seek medical advice immediately and show this container or label.

Self-protection of the first aider:

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

4.3. Indication of any immediate medical attention and special treatment needed

Take care for the labels and safety data sheets of the chemicals to be used.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water mist, alcohol resistant foam, Dry extinguishing powder

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

In case of fire may be liberated: Hazardous decomposition products : Carbon dioxide , Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment. Special danger of slipping by leaking/spilling product.

Protective equipment:

Use personal protection equipment.

Emergency procedures:

Remove all sources of ignition.

6.1.2. For emergency responders

Personal protection equipment:

Use appropriate respiratory protection.

6.2. Environmental precautions

Suitable material for diluting or neutralizing: Water. Treat the recovered material as prescribed in the section on waste disposal. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment:

Suitable material for taking up: Sand , Earth , Kieselguhr ,

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For cleaning up:

Water (with cleaning agent)

6.4. Reference to other sections

Disposal: see section 13

6.5. Additional information

Clear spills immediately.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

No special handling advices are necessary. Keep out of the reach of children. Read label before use.

Fire prevent measures:

The product itself does not burn.

Measures to prevent aerosol and dust generation:

not relevant

Environmental precautions:

No special measures are necessary.

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Wash contaminated clothing immediately. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

The product is stable under storage at normal ambient temperatures. Keep container tightly closed in a cool, well-ventilated place. not useable after freezing.

Packaging materials:

Keep/Store only in original container.

Requirements for storage rooms and vessels:

Store in a well-ventilated place. Keep container tightly closed.

Hints on storage assembly:

not relevant

Storage class: 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

Industrial sector specific solutions:

Water-based paints, solvent-free

Giscode:

M-DF01

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses Eye glasses with side protection

Skin protection:

Hand protection, Suitable material: NBR (Nitrile rubber) .Breakthrough time (maximum wearing time) >8h. See information supplied by the manufacturer.

Respiratory protection:

Usually no personal respirative protection necessary.

Thermal hazards:

See chapter 7. No additional measures necessary.

Other protection measures:

Provide adequate ventilation.

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8.2.3. Environmental exposure controls

The following substances may cause allergic reactions: 1,2-Benzisothiazol-3(2H)-on; 2-Methyl-2H-isothiazol-3-on.

8.3. Additional information

Avoid contact with eyes and skin. When using do not eat, drink or smoke. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: white

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	8 - 9	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	1.6 - 1.65 g/cm ³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Frost , Heat . Protect against direct sunlight.

10.5. Incompatible materials

No hazardous reaction when handled and stored according to provisions.

10.6. Hazardous decomposition products

In case of fire may be liberated: Hazardous decomposition products : Carbon dioxide , Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
2634-33-5	1,2-benzisothiazol-3(2H)-one	LD₅₀ oral: 1,020 g/m ³ (Rat)

Acute oral toxicity:

There are no data available on the mixture itself.

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Acute dermal toxicity:

There are no data available on the mixture itself.

Acute inhalation toxicity:

There are no data available on the mixture itself.

Skin corrosion/irritation:

May cause an allergic skin reaction.

Serious eye damage/irritation:

There are no data available on the mixture itself.

Respiratory or skin sensitisation:

Contains: 1,2-Benzisothiazol-3(2H)-on. May cause an allergic skin reaction.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Carcinogenicity:

No indication of human carcinogenicity.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

STOT-single exposure:

There are no data available on the mixture itself.

STOT-repeated exposure:

There are no data available on the mixture itself.

Aspiration hazard:

There are no data available on the mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
2682-20-4	2-methyl-2H-isothiazol-3-one	LC ₅₀ : 0.19 mg/l 4 d LC ₅₀ : 0.056 mg/l 2 d
2634-33-5	1,2-benzisothiazol-3(2H)-one	LC ₅₀ : 10 mg/l 4 d EC ₅₀ : 4.4 mg/l 2 d

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

There are no data available on the mixture itself. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
2682-20-4	2-methyl-2H-isothiazol-3-one	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
2634-33-5	1,2-benzisothiazol-3(2H)-one	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Following consultation with waste management company and after solidification, landfill together with household waste.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

08 01 12	waste paint and varnish other than those mentioned in 08 01 11
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Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation.

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant			
14.4. Packing group			
not relevant			
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
not relevant			

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

See overview table at www.euphrac.eu

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.