

SAFETY DATA SHEET

RESISTANCE ULTRA DURABLE MATT EMULSION

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

1.1 PRODUCT IDENTIFIER

Product form:	Mixture
Product name:	Graham and Brown Resistance Durable Matt Emulsion
Product code:	3500198070201
Product group:	Wall paint

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

1.2.1 Relevant Identified uses.

Intended for general public.

Main use category:	Consumer use, Professional use, Industrial use
Use of the substance/mixture:	Industrial and decorative painting

1.2.2 Uses advised against.

No additional Information available.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier:

Graham and Brown Limited Lancashire,
India Mill,
Harwood St,
Blackburn,
BB1 3DB
PO Box 39
United Kingdom
T +44 (0)1254 691321 / 0800 328 8452
www.grahambrown.com

Responsible formatting SDS:

Mantech Nederland B.V.
Kobaltweg 7
P.O. Box 39 5234 GN 's-Hertogenbosch – Nederland

T +31 (0)73 70 70 112 - F +31 (0)73 64 43 861

info@mantechbu.nl

www.mantechbu.nl

1.4 EMERGENCY TELEPHONE NUMBER

Emergency number: +44 (0)1254 691321 [Graham and Brown Limited]

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015:

According to Regulation (EU) 2015/830 (REACH Annex II):

Not classified

Adverse physicochemical, human health and environmental effects:

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008.

2.2 LABEL ELEMENTS

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

Signal word (CLP)	Not applicable
Hazard statements (CLP)	Not applicable.
Precautionary statements (CLP)	P102 - Keep out of reach of children. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, protective clothing, eye protection. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. [Spray application; P261 - Avoid breathing spray.].
EUH-statements	EUH208 - Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one(2634-33-5)(220-120-9). May produce an allergic reaction. EUH210 - Safety data sheet available on request.
Child-resistant fastening	Not applicable
Tactile warning	Not applicable
2.3 OTHER HAZARDS	
Other hazards not contributing to the classification	None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Not applicable

3.2 MIXTURES

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Titanium dioxide substance with a community workplace exposure limit	(CAS-No.)13463-67-7 (EC-No.) 236-675-5 (REACH-no) 01-2119489379-17	25-50	Not classified
Nepheline Syenite substance with national workplace exposure limit(s) (BE, NL)	(CAS-No.) 37244-96-5 (EC-No.) 270-666-7 (REACH-no) Exempt in accordance with Annex v.7	10 - 25	Not classified
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	0,005=< C < 0,05	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
Specific concentration limits:			
Name	Product Identifier	Specific Concentration limits	
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3- one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	(C >= 0,05) Skin Sens. 1, H317	

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST MEASURES

First-aid measures general

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

First-aid measures after inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth.
First-aid measures after skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
First-aid measures after eye contact	Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
First-aid measures after ingestion	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms/effects	No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.
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4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No additional information available

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media	Carbon Dioxide (CO ₂), powder, alcohol-resistant foam, water spray.
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Unsuitable extinguishing media	Do not use a heavy water stream.
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5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire hazard	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.
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5.3 EXTINGUISHING MEDIA

Precautionary measures fire	Cool closed containers exposed to fire with water
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Other information	Do not allow run-off from fire fighting to enter drains or water courses
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 For non-emergency personnel.

Protective equipment	Use personal protective equipment as required.
Emergency procedures	Do not smoke. Ventilate area. Do not breathe vapours.

6.1.2 For emergency responders.

Protective equipment	Equip rescue crew with proper protection.
Emergency procedures	No smoking. Ventilate area. Do not breathe vapours.

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Methods for cleaning up	Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).
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Other information	Clean preferably with a detergent - avoid use of solvents.
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6.4 REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling	Keep container tightly closed. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. For personal protection see Section 8. Comply with the health and safety at work laws.
Hygiene measures	Smoking, eating and drinking should be prohibited in application area.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions	Store in accordance with local/national regulations.
Storage temperature	5 - 30 °C Store in dry, well-ventilated area.
Information on mixed storage	Store separately from oxidising agents and strongly alkaline and strongly acidic materials.
Storage area	Prevent unauthorised access.
Special rules on packaging	Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 SPECIFIC END USE(S)

No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Graham and Brown Resistance Ultra Durable Matt Emulsion - eco		
Netherlands	Grenswaarde TGG 8H (mg/m3)	There is no data available on the preparation itself.
Titanium dioxide (13463-67-7)		
EU	Local name	Titanium dioxide
EU	Notes	Ongoing
EU	Regulatory reference	SCOEL Recommendations
Germany	TRGS 910 Acceptable concentration notes	

8.2 EXPOSURE CONTROLS

Appropriate engineering controls:

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Personal protective equipment:

Protective goggles. Gloves. In case of inadequate ventilation wear respiratory protection.

Hand protection:
<p>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. For prolonged contact, use rubber or neoprene gloves. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.</p>
Eye protection:
Use safety eyewear designed to protect against splash of liquids.
Skin and body protection:
Cotton or cotton/synthetic overalls or coveralls are normally suitable. Every part of the skin which had contact with the product should have been washed thoroughly.
Respiratory protection:
If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

Personal protective equipment symbol(s):



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Liquid

Colour

Different colours.

Odour	Characteristic.
Odour threshold	No data available
pH	8-9
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	± 0 °C Water
Boiling point	± 100 °C Water
Flash point	Not applicable
Auto-ignition temperature	The product does not ignite spontaneously.
Decomposition temperature	When exposed to heat, may decompose and give off hazardous gases.
Flammability (solid, gas)	Not flammable.
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.50 g/cm ³ @ 20 °C
Solubility	Miscible with water.
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	120 - 130 KU (Krebs Stormer) @20°C
Explosive properties	No dangerous reactions known.
Oxidising properties	No data available.
Explosive limits	Not applicable

9.2 OTHER INFORMATION

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No dangerous reactions known.

10.2 CHEMICAL STABILITY

Stable under recommended storage and handling conditions (see section 7).

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Keep away from oxidising agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions.

10.4 CONDITIONS TO AVOID

May produce hazardous decomposition products when exposed to high temperatures.

10.5 INCOMPATIBLE MATERIALS

See heading 7.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity (oral) Not classified

Acute toxicity (dermal) Not classified

Acute toxicity (inhalation) Not classified

Titanium dioxide (13463-67-7)	
LD50 oral rat	>5000mg/kg CSR applicable
LC50 inhalation rat (mg/l)	6.82mg/l/4h CSR applicable
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
LD50 oral	1020 mg/kg bodyweight
LD50 dermal	4115 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	100 mg/l

Skin corrosion/irritation Not classified

pH 8-9

Serious eye damage/irritation Not classified

pH 8-9

Respiratory or skin sensitisation Not classified

Germ cell mutagenicity Not classified

Carcinogenicity Not classified

Reproductive toxicity Not classified

STOT-single exposure Not classified

STOT-repeated exposure Not classified

Aspiration hazard Not classified

Potential adverse human health effects and symptoms This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Ecology - general The mixture has been assessed following the conventional

method of the Regulation (EC) No. 1272/2008 [CLP] and is not classified as dangerous for the environment but contains substance(s) dangerous for the environment. See Heading 3.

Acute aquatic toxicity Not classified
Chronic aquatic toxicity Not classified

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
LC50 fish 1	2.18 mg/l
EC50 Daphnia 1	3.27 mg/l
EC50 other aquatic organisms 1	2.94 mg/l waterflea
EC50 other aquatic organisms 2	0.11 mg/l
EC50 72h algae (1)	0.11 mg/l
ErC50 (algae)	0.11 mg/l [Selenastrum capricomutum, 72h]
NOEC (chronix)	1.2 mg/l
NOEC chronic fish	0.21 mg/l
NOEC chronic algae	0.04mg/l

Titanium dioxide (13463-67-7)	
LC50 fish 1	> 1000 mg/l (Pimephales promelas) CSR applicable
EC50 Daphnia 1	> 1000 mg/l
EC50 72h algae (1)	61 mg/l pseudokirchneriella subcapitata CSR applicable

12.2 PERSISTENCE AND DEGRADABILITY

There is no data available on the preparation itself for Graham and Brown Resistance Ultra Durable Matt Emulsion – eco.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
Biodegradation	>70%

12.3 BIOACCUMULATIVE POTENTIAL

Log Pow No data available
Bioaccumulative potential There is no data on the preparation itself

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
BCF fish 1	6.95 (OECD 305)
Log Pow	0.7
Log Kow	0.7 (OECD 117)

12.4 MOBILITY IN SOIL

Ecology – soil – There is no data available on the preparation itself for Graham and Brown Resistance Ultra Durable Matt Emulsion – eco.

Titanium dioxide (13463-67-7)

Log Koc	No results are available for the adsorption/desorption of TiO ₂ . Therefore read-across is proposed to Kp values based on available monitoring data for elemental Ti-concentration in water and corresponding sediment or suspended matter (no data are available for soil). These results reflect equilibrium conditions for Ti in the environment, regardless the speciation of Ti. Value used for CSA: log Kp (solids-water in sediment): 4.61 L/kg; log Kp (solids-water in suspended matter): 5.36 L/kg;
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12.5 RESULTS OF PBT AND vPvB ASSESSMENT

The substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

The substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

12.6 OTHER ADVERSE EFFECTS

Product may not flow into sewer or superficial water.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Regional legislation (waste)

Do not allow to enter drains or water courses.

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations.

Additional information

Uncleaned packaging: Recommendation: Not completely empty packaging must be treated complying with Directive 91/689/EEC.

European List of Waste (LoW) code

08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS 08 01 12 - waste paint and varnish other than those mentioned in 08 01 11

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR/RID/IMDG/IATA/AND

ADR	IMDG	IATA	ADN	RID
14.1. UN NUMBER				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN PROPER SHIPPING NAME				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. TRANSPORT HAZARD CLASS(ES)				

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. PACKING GROUP				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. ENVIRONMENTAL HAZARDS				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6 SPECIAL PRECAUTIONS FOR USER

Special Transport Precautions

Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Overland transport

Transport regulations (ADR) Not applicable

Transport by Sea

Transport regulations (IMDG) Not applicable

Air Transport

Transport regulations (IATA) Not applicable

Inland Waterway Transport

Transport regulations (AD) Not applicable

Rail Transport

Transport regulations (RID) Not applicable

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

IBC code Not determined

Ship type Not determined

Pollution category Not determined

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

DIRECTIVE 2004/42/EC on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products

EU limit value for Graham and Brown Ultra durable matt emulsion - eco (cat. A/a): 30 g/l Graham and Brown Ultra durable matt emulsion - eco Contains max 30,00 g/l VOC

15.1.2 National Regulations

Dutch National Regulations

Eurofins VOC TEST REPORT:


Indoor Air Comfort GOLD® Indoor Air Comfort GOLD 5.3a of March 2015	PASS
Indoor Air Comfort® Indoor Air Comfort GOLD 5.3a of March 2015	PASS
BREEAM International GN22: BREEAM Recognised Schemes for VOC Emissions from Building Products	Compliant
French VOC regulation Regulation of March and April 2011 (DEVL 1101903D and DEVL 1104875A)	A+
French CMR components Regulation Regulation of March and April 2011 (DEVL 1101903D and DEVL 1104875A)	PASS
AgBB Ausschuss zur gesundheitlichen Bewertung von Bauprodukten AgBB of February 2015. DIBt of October 2010	PASS
Belgian Regulation VOC Royal degree of May 2015 (C-2014/24239)	PASS
EN 717-1 § 2004	E1
EMICODE November 2015	EC 1 PLUS

15.2 CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Full Text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment  Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one(2634-33-5)(220-120-9). May produce an allergic reaction.
EUH210	Safety data sheet available on request.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.