

SAFETY DATA SHEET

According to UK REACH Regulation: SI 2019/758



SECTION 1. IDENTIFICATION

1.1 Product identifiers

Product name:	M-Guard Colour
Chemical description:	Water-based fluoropolymer dispersion
REACH Registrations	The ingredients in this composition have been registered by the individual suppliers

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

Identified uses:	Concrete coating and sealant
Uses advised against	All uses not specified in this section or Section 7.3

1.3 Details of the supplier of the safety data sheet

Supplier :	Muralplast 11 Invicta Business Park London Road Wrotham Kent TN15 7RJ
Telephone	+44 (0)1732 884022 (Office hours only)
Email	LUCAS@LUCASUK.com

1.4 Emergency telephone number

<i>Emergency telephone:</i>	0344 8920555 (National Poisons Information Service) * Healthcare professionals only 111 (NHS 111 – UK only)
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SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to GB Classification, Labelling and Packaging Regulations

Not classified

2.2 Label elements

Labelling according to GB Classification, Labelling and Packaging Regulations	
Product identifier	M-Guard Colour
Pictogram:	Not applicable
Signal word:	Not applicable
Hazard statement(s):	Contains Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione

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	and Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction EUH210: Safety data sheet available on request
Precautionary statement(s):	P261: Avoid breathing mist/vapours/spray P280: Wear protective gloves P302+P352: If on skin: wash with plenty of water, or soap and water. P333+P313: If skin irritation or a rash develops: Get medical advice/attention P362+P364: Take off contaminated clothing and wash it before reuse P501: Dispose of contents to licensed waste contractor

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance : Not applicable

Mixture : Hazardous ingredients:

Chemical name	Identifier	Concentration (% w/w)	Classification Regulation (EC) No. 1272/2008 [CLP]
Titanium dioxide (Workplace exposure limit)	EC: 236-675-5 CAS: 13463-67-7 Reg: 01-2119489379-17-xxxx	< 30	Not classified
Propylene glycol (Workplace exposure limit)	EC: 200-338-0 CAS: 57-55-6 Reg: 01-2119456809-23-xxxx	2.5-< 10	Not classified
2-(2-butoxyethoxy)ethanol	EC: 203-961-6 CAS: 112-34-5 Reg: 01-2119475104-44-xxxx	1-< 2.5	H319

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Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione	EC: 226-408-0 CAS: 5395-50-6 Reg: 01-2120762062-63-xxxx	< 0.1	H317
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	EC: 611-341-5 CAS: 55965-84-9 Reg: 01-2120764691-48-xxxx	< 0.1	H301-H310 H314-H317 H318 H400-H410 (M=100)

See Section 16 for full text of abbreviations

SECTION 4. FIRST AID MEASURES

Description of first aid measures

If inhaled:	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped administer artificial respiration. Give nothing by mouth. If unconscious place in the recovery position. Seek medical advice if symptoms develop.
In case of skin contact:	Remove contaminated clothing, wash skin thoroughly with water or soap and water. Seek medical advice if irritation develops.
In case of eye contact:	If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. Protect non-irritated eye. Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical advice if irritation persists.
If swallowed	Rinse mouth with water. Do not induce vomiting. If vomiting occurs, turn patient on side and keep head low so that vomit does not enter lungs. Seek medical advice immediately and show safety data sheet or label..

4.2 Most important symptoms and effects, both acute and delayed

No known significant effects or critical hazards with the correct use of the product.

Skin contact	There may be an allergic reaction at the site of contact
Eye contact	There may be irritation and redness
Ingestion	There may be stomach ache and nausea

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Inhalation	May cause dizziness, drowsiness, headache, nausea
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4.3 Indication of any immediate medical attention and special treatment needed

Stomach ache, nausea, eye irritation that persists, skin irritation

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media	
Suitable extinguishing media:	Dry chemical, water spray, foam, carbon dioxide As appropriate for surrounding materials
Unsuitable extinguishing media	Water jet – may spread fire
5.2 Special hazards arising from the substance or mixture Thermal decomposition will evolve irritant vapours	
5.3 Advice for firefighters Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Cool containers exposed to fire with water spray.	

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Protective equipment not normally required. Do not touch or walk through spilt material. Prevent further release by, for example, turning container so leak is upward, if safe to do so.
6.2 Environmental precautions
Dilute with plenty of water. Prevent entry into drains, surface- and ground waters, basements or confined areas. Control the spillage with bunding. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for containment and cleaning up
Soak up with inert non-combustible absorbent material. Transfer product to suitably labelled container for disposal at an approved site.
6.4 Reference to other sections
See Sections: 8 (EXPOSURE CONCERNS/PERSONAL PROTECTION) and 13 (DISPOSAL CONSIDERATIONS)

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling
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Precautions:	Ensure good ventilation and extraction at the workplace. Prevent formation of aerosols
Fire and explosion protection measures:	No specific protective measures are required
7.2 Conditions for safe storage, including any incompatibilities	
Requirements for storage areas and containers:	Store in a cool, well-ventilated place. Store in dry conditions between 5 degC - 30 degC . Protect from frost. Protect from sunlight and sources of direct heat. Keep container tightly sealed in a cool well-ventilated place
Shelf life:	24 months
Incompatible products:	No special requirements
7.3 Specific end use(s):	
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

WEL: Workplace Exposure Limit (UK HSE EH40)

Ingredient	LTEL (8 hours)	STEL (15 minutes)
Titanium dioxide	4 mg/m ³ (Respirable dust) 10 mg/m ³ (Total inhalable dust)	Not applicable
Propylene glycol	10 mg/m ³ (Particulates) 474 mg/me (Total vapour and particulates)	Not applicable
2-(2-butoxyethoxy)ethanol	67.5 mg/m ³	101.2 mg/m ³

Biological Exposure Limits: No data available

DNEL:

Propylene glycol	Ingestion (Consumer)	85 mg/day
	Skin Contact (Consumer)	213 mg/day
	Inhalation (Consumer)	50 mg/m ³
	Inhalation (Worker)	168 mg/m ³
2-(2-butoxyethoxy)ethanol	Ingestion (Consumer)	1.25 mg/day
	Skin Contact (Consumer)	10 mg/day
	Skin Contact (Worker)	20 mg/day
	Inhalation (Consumer)	34 mg/m ³
	Inhalation (Worker)	67.5 mg/m ³

PNEC: No data available

Information on monitoring procedures:

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Recommended monitoring procedures: Not applicable

8.2 Exposure controls

Individual protection measures, such as personal protective equipment:

Engineering controls	No specific requirements. Use outdoors or with good ventilation.
General safety and hygiene measures:	Observe the general principles of safety and hygiene. Do not eat, drink, or smoke while working. Wash your hands thoroughly before breaks and after finishing work. Wash contaminated clothing before reusing. Ensure that eyewash stations are close to the workstation location.

8.3 Personal Protective Equipment

Respiratory protection:	Not normally required if ventilation is adequate. If air concentrations are high e.g. spraying, a particulate mask (FFP1) or respirator with Type A filter (Organic vapour) may be suitable (EN149). Where air filtering respirators are unsuitable (risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.
Hand protection:	Impervious plastic or rubber gloves – Nitrile, butyl, PVC, Viton. Breakthrough time 480 minutes. The product is a mixture of several substances. Consult manufacturer.
Eye/face protection:	If exposure to liquid splashes or mists is possible, wear safety glasses with side shields or goggles (EN166).
Body/skin protection:	Wear overalls and boots
Control of environmental exposure:	Avoid release to the environment

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
(a) Appearance	White liquid
(b) Odour	Characteristic
(c) Odour Threshold	Not determined
(d) pH	Not determined
(e) Melting point/freezing point	Not applicable. Test not scientifically justified
(f) Initial boiling point and boiling range	100 degC
(g) Flash point	Not applicable. Test not scientifically justified
(h) Evaporation rate	Not applicable. Test not scientifically justified

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(i) Flammability (solid, gas)	Not applicable. Product is a liquid
(j) Upper/lower flammability or explosive limits	Not applicable. Test not scientifically justified
(k) Vapour pressure	Not applicable. Test not scientifically justified
(l) Vapour density	Not applicable. Test not scientifically justified
(m) Relative density	1.15
(n) Water solubility at 20 degC	Partially soluble in water
(o) Partition coefficient: n-octanol/water	Not applicable. Test not scientifically justified
(p) Auto-ignition temperature	> 370 degC
(q) Decomposition temperature	Not applicable. Test not scientifically justified
(r) Viscosity	Not available
(s) Explosive properties	Product does not contain any structural groups that possess explosive properties
(t) Oxidizing properties	Product does not contain any structural groups that possess oxidising properties
9.2 Other safety characteristics:	Volatile Organic Content (VOC) < 30 g/litre

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: Non-reactive under normal conditions of transport and storage. Does not undergo hazardous polymerization.

10.2 Chemical stability: The product is stable when used properly and stored.

10.3 Possibility of hazardous reactions: No hazardous reactions known

10.4 Conditions to avoid: Protect from sunlight and temperature above 30°C, and against freezing

10.5 Incompatible materials: No special requirements

10.6 Hazardous decomposition products: Combustion may produce irritant vapours

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Mixture)

Acute toxicity Ingestion Inhalation Skin contact	ATE > 2000 mg/kg ATE > 10 mg/L ATE > 5000 mg/kg
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2-Hisothiazol-3-one [EC no. 220-239-6] (3:1)	Ingestion : LD50 = 64 mg/kg Inhalation : LC50 = 0.17 mg/L Skin contact : LD50 = 141 mg/kg

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Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Sensitisation	May cause an allergic skin reaction
Carcinogenicity	Based on available data, the classification criteria are not met
Mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
Lactation	Based on available data, the classification criteria are not met
STOT (Specific Target Organ Toxicity) Single exposure	Based on available data, the classification criteria are not met
STOT (Specific Target Organ Toxicity) Repeated exposure	Based on available data, the classification criteria are not met
Aspiration toxicity	Based on available data, the classification criteria are not met
11.2 Other hazards	

Symptoms/Routes of exposure

Skin contact	There may be an allergic reaction at the site of contact
Eye contact	There may be irritation and redness
Ingestion	There may be stomach ache and nausea
Inhalation	May cause dizziness, drowsiness, headache, nausea

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity	
Aquatic toxicity (Product)	
Fish	ATE > 20 mg/L
Daphnia magna	ATE > 10 mg/L
Algae	ATE ~ 5 mg/L
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2-Hisothiazol-3-one [EC no. 220-239-6] (3:1) :	
Fish (96 hr)	LC50 : 0.22 mg/L

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Daphnia magna. (48 hr) EC50: 0.10 mg/L Algae (72 hr) EC50: 0.048 mg/L
12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
The product has no potential for bioaccumulation.
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
Not classified as PBT or vPvB.
12.6 Other adverse effects: No data

SECTION 13. DISPOSAL CONSIDERATIONS

This material and its container must be disposed of in a safe way. Empty containers may retain some product residues. Do not dispose of with household waste. Do not allow product to reach sewer system. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14. TRANSPORT INFORMATION

UN number	The product is not dangerous for road (ADR), rail (RID), sea (IMDG), and air (IATA) transport.
UN proper shipping name	Not applicable
Transport hazard class (es)	Not applicable
Packaging group	Not applicable
Environmental hazards	Not applicable
Special precautions for users	Not applicable

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the substance or mixture:

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	GB Classification, Labelling and Packaging Regulations (EC 1272/2008 as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc) (EU Exit) Regulations 2019 No. 720 Schedule 2) UK REACH Regulation Restriction 68: Perfluorooctanoic acid (PFOA) and related substances Condition 3 Paint, Varnishes and Vehicle Refinishing Products Regulations 2012: 1715 (Volatile Organic Content)
15.2 Chemical Safety Assessment	A chemical safety assessment was not carried out for this product

SECTION 16. OTHER INFORMATION

The following sections contain revisions or new statements: Sections #1 to #16

Abbreviations

ADR	International Regulation – Carriage of goods by road
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service
DNEL	Derived No Effect Level
EC ***-	European Community Number
EH40	HSE EH40/2015 Workplace Exposure Limits
HSE	UK Health and Safety Executive
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organisation
LTEL	Long Term Exposure Limit (8 hours)
MARPOL	International Convention Prevent Pollution from Ships
PNEC	Predicted No-Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
RID	International Agreement – Carriage of goods by rail
STEL	Short Term Exposure Limit (15 minutes)
VOC	Volatile Organic Content
vPvB	very Persistent and very Bioaccumulative

Mixtures classification methods:

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The product has been classified according to the generic concentration limits defined in the Classification, Labelling and Packaging Regulations and the ECHA guidance notes for the classification of mixtures.

Full text of H-Statements referred to under Section 2 and Section 3.

Section 2	Contains Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione and Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction EUH210: Safety data sheet available on request
Section 3:	<i>H301: Toxic if swallowed</i> <i>H310 : Fatal in contact with skin</i> <i>H314: Causes severe burns and eye damage</i> <i>H317: May cause an allergic skin reaction</i> <i>H318: Causes serious eye damage</i> <i>H319: Causes serious eye irritation</i> <i>H400: Very toxic to aquatic life</i> <i>H410: Very toxic to aquatic life with long-lasting effects</i>

References:

European Chemicals Agency
UK and European Regulations and Directives
Published chemical directories
Suppliers' safety data sheets
UK Health and Safety Executive

The information contained in this Safety Data Sheet has been based on sources and technical knowledge as well as applicable law at European and national level, and its accuracy cannot be fully guaranteed. This information cannot be regarded as a guarantee of product properties, as it is only a description of the requirements regarding safety issues. The methods and working conditions of the users of this product are beyond the reach of our knowledge and control, so the user is responsible for taking appropriate measures to comply with legal requirements regarding the handling, storage, use and disposal of chemical products. The information contained in this Safety Data Sheet applies only to the product that must not be used for purposes other than those specified therein.

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