

HPD UNIQUE IDENTIFIER: 21837

CLASSIFICATION: 03 00 00 Concrete

PRODUCT DESCRIPTION: MasterLife CI 222 admixture is a patented state-of-the-art corrosion-inhibiting admixture formulated to inhibit the corrosion of steel in reinforced concrete. MasterLife CI 222 admixture provides two levels of corrosion protection, making it the most effective corrosion-inhibiting admixture available. MasterLife CI 222 admixture meets ASTM C 494/C 494M requirements for Type S, Specific Performance, admixtures. For additional information, please visit our website at: <https://www.master-builders-solutions.com/en-us/architects-and-designers>

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- ☐ Nested Materials Method
- ☒ Basic Method

Threshold Disclosed Per

- ☐ Material
- ☒ Product

Threshold level

- ☒ 100 ppm
- ☐ 1,000 ppm
- ☐ Per GHS SDS
- ☐ Other

Residuals/Impurities

- ☒ Considered
- ☐ Partially Considered
- ☐ Not Considered

Explanation(s) provided
for Residuals/Impurities?

- ☒ Yes ☐ No

All Substances Above the Threshold Indicated Are:

Characterized ☐ Yes Ex/SC ☒ Yes ☐ No
% weight and role provided for all substances.

Screened ☐ Yes Ex/SC ☒ Yes ☐ No
All substances screened using Priority Hazard Lists with
results disclosed.

Identified ☐ Yes Ex/SC ☐ Yes ☒ No
One or more substances not disclosed by Name (Specific or
Generic) and Identifier and/ or one or more Special Condition
did not follow guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

MASTERLIFE CI 222 [UNDISCLOSED BM-4 MONOETHANOLAMINE LT-P1
| RES | SKI | END BUTYL OLEATE LT-UNK UNDISCLOSED LT-UNK
UNDISCLOSED BM-1 | DEV | END UNDISCLOSED LT-UNK UNDISCLOSED
LT-UNK UNDISCLOSED LT-UNK 1,2-BENZISOTHIAZOLIN-3-ONE (BIT) LT-
P1 | AQU | SKI | EYE | MUL]

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen
Benchmark or List translator Score ... BM-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
All residuals and impurities within the threshold are included.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.
VOC emissions: Exempt

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- ☐ Yes
- ☒ No

PREPARER: Self-Prepared

VERIFIER:
VERIFICATION #:

SCREENING DATE: 2020-09-23

PUBLISHED DATE: 2020-09-25
EXPIRY DATE: 2023-09-23



Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

MASTERLIFE CI 222

PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes
RESIDUALS AND IMPURITIES NOTES: All substances including residuals and impurities are considered in the regulatory evaluation. The assessment has verified all hazard classifications are conducted within the provisions of North American countries' regulatory requirements.	
OTHER PRODUCT NOTES: Concrete admixtures are introduced into a concrete mixture and would not be considered a finished, installed product but a material input to a concrete mixture.	

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-23		
%: 55.0000	GS: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Carrier
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: All residuals and impurities within the threshold are included.				

MONOETHANOLAMINE

ID: 141-43-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-23		
%: 15.0000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Surfactant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization		
SUBSTANCE NOTES: All residuals and impurities within the threshold are included.				

BUTYL OLEATE

ID: 142-77-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-23		
%: 15.0000 - 20.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Surfactant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: All residuals and impurities within the threshold are included.				

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-23		
%: 0.1000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Surfactant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: All residuals and impurities within the threshold are included.				

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-23		
%: 0.0100	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Solvent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity		
SUBSTANCE NOTES: All residuals and impurities within the threshold are included.				

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-23		
%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: All residuals and impurities within the threshold are included.				

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-09-23**

?: **0.0000 - 0.5000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **All residuals and impurities within the threshold are included.**

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-09-23**

?: **0.0000 - 0.1000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Solvent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **All residuals and impurities within the threshold are included.**

1,2-BENZISOTHIAZOLIN-3-ONE (BIT)

ID: **2634-33-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-09-23**

?: **0.0000 - 0.1000**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Solvent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: **All residuals and impurities within the threshold are included.**

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

Exempt

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2020-**

EXPIRY DATE:

CERTIFIER OR LAB: **Internal**

APPLICABLE FACILITIES: **Master Builders Solutions -
Admixture Systems Plants**

01-01

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Per LEED Indoor Environmental Quality, Low-Emitting Materials: Concrete is an inherently non-emitting source. Products that are inherently non-emitting sources of VOC's (Concrete, Stone, ceramic, powder-coated metals, plated or anodized metal, glass, clay brick, and unfinished/untreated solid wood flooring) are considered fully compliant without any VOC emissions testing if they do not include integral organic based surface coatings, binders, or sealants.**

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

For additional information, please visit our website at: <https://www.master-builders-solutions.com/en-us/architects-and-designers>



MANUFACTURER INFORMATION

MANUFACTURER: **Master Builders Solutions**
ADDRESS: **23700 Chagrin Blvd**
Beachwood Ohio 44122, USA
WEBSITE: **https://www.master-builders-solutions.com/en-us/architects-and-designers**

CONTACT NAME: **David R Green**
TITLE: **Manager Sustainability**
PHONE: **216-839-7803**
EMAIL: **david.green@mbcc-group.com**

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,*
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.*

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this

