

CLASSIFICATION: 09 28 16

created via: HPDC Online Builder

PRODUCT DESCRIPTION: MAGTECH ULTRA IS A DOMESTICALLY PRODUCED, PROPRIETARY MAGNESIUM OXIDE PRODUCT, UTILIZING PATENT PENDING FORMULATIONS, DESIGNED FOR THE DEMANDS OF THE U.S. BUILDING MARKET.

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
- Per OSHA MSDS
- Other

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized Percent Weight and Role Provided?

- Yes No

Screened Using Priority Hazard Lists with Results Disclosed?

- Yes No

Identified Name and Identifier Provided?

- Yes No

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

MAGTECH ULTRA [MAGNESIUM HYDROXIDE BM-3 WATER BM-4
UNDISCLOSED LT-UNK MAGNESIUM SULFATE, ANHYDROUS LT-UNK
UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED NoGS
SOLID / PLATE GLASS (FIBERGLASS) LT-UNK UNDISCLOSED LT-P1 | PBT
UNDISCLOSED LT-UNK QUARTZ LT-1 | CAN MAGNESITE LT-UNK SODIUM
SULFATE LT-UNK]

Number of Greenscreen BM-4/BM3 contents.....
2
Contents highest concern GreenScreen
Benchmark or List translator Score..... LT-1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

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: Inherently Non-Emitting Source per LEED

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2018-03-20
PUBLISHED DATE: 2018-03-20
EXPIRY DATE: 2021-03-20

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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

MAGTECH ULTRA

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were collected from suppliers and those that fall above the stated threshold are shown as intentionally added ingredients.

OTHER PRODUCT NOTES:

MAGNESIUM HYDROXIDE

ID: 1309-42-8

#: **30.0000 - 40.0000** GS: **BM-3** RC: **None** NANO: **No** ROLE: **Panel Body**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the supplier's formulation.

WATER

ID: 7732-18-5

#: **25.0000 - 30.0000** GS: **BM-4** RC: **None** NANO: **No** ROLE: **Mixing Aid**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the supplier's formulation.

UNDISCLOSED

#: **15.0000 - 20.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Inorganic Filler**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The substance is undisclosed to protect the proprietary nature of the manufacturer's formulation but has been screened against the HPD Priority Lists, as shown above.

MAGNESIUM SULFATE, ANHYDROUS

ID: 7487-88-9

%: **7.0000 - 10.0000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Panel Body**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the supplier's formulation.

UNDISCLOSED

%: **5.0000 - 7.0000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Inorganic Filler**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The substance is undisclosed to protect the proprietary nature of the manufacturer's formulation but has been screened against the HPD Priority Lists, as shown above.

UNDISCLOSED

%: **3.0000 - 5.0000**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

ROLE: **Inorganic Filler**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The substance is undisclosed to protect the proprietary nature of the manufacturer's formulation but has been screened against the HPD Priority Lists, as shown above. A range is provided to protect the proprietary nature of the supplier's formulation. Recycled content comes from a byproduct of energy production.

UNDISCLOSED

%: **0.9000 - 1.0000**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Hardener**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The substance is undisclosed to protect the proprietary nature of the manufacturer's formulation but has been screened against the HPD Priority Lists, as shown above. A range is provided to protect the proprietary nature of the supplier's formulation.

SOLID / PLATE GLASS (FIBERGLASS)

ID: **65997-17-3**

%: **0.6000 - 0.7000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Reinforcement Scrim**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the supplier's formulation.

UNDISCLOSED%: **0.5000 - 2.0000**GS: **LT-P1**RC: **None**NANO: **No**ROLE: **Water Reducer**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PBT

EC - CEPA DSL

Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES: The substance is undisclosed to protect the proprietary nature of the manufacturer's formulation but has been screened against the HPD Priority Lists, as shown above. A range is provided to protect the proprietary nature of the supplier's formulation.

UNDISCLOSED%: **0.2000 - 0.4000**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Strengthening Agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The substance is undisclosed to protect the proprietary nature of the manufacturer's formulation but has been screened against the HPD Priority Lists, as shown above. A range is provided to protect the proprietary nature of the supplier's formulation.

QUARTZID: **14808-60-7**%: **0.1000 - 0.8000**GS: **LT-1**RC: **None**NANO: **No**ROLE: **Naturally occurring in filler**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources

CANCER

US NIH - Report on Carcinogens

Known to be Human Carcinogen (respirable size - occupational setting)

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

CANCER

New Zealand - GHS

6.7A - Known or presumed human carcinogens

CANCER

Japan - GHS

Carcinogenicity - Category 1A

CANCER

Australia - GHS

H350 - May cause cancer

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the supplier's formulation.

MAGNESITEID: **546-93-0**

%: **0.1000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Naturally occurring in filler**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is a naturally occurring residual found in the filler.

SODIUM SULFATE

ID: **7757-82-6**

%: **0.0000 - 0.1000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Panel Body**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the supplier's formulation.

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

Inherently Non-Emitting Source per LEED

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2018-03-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **All**

02

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

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.

FASTENERS

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Fasteners are required to fasten the board to the wall. This is a commodity item.

Section 5: General Notes

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **North American MgO**
ADDRESS: **40 South Street**
P.O. Box 3184
North Aurora IL 60542, USA
WEBSITE: **www.northamericanmgo.com**

CONTACT NAME: **Futong Cui**
TITLE: **Director of Research and Development**
PHONE: **630-518-4766**
EMAIL: **Futong.Cui@NorthAmericanMgO.com**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

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 HPD and for compliance with the HPD standard noted.