

CLASSIFICATION: 01 73 23

PRODUCT DESCRIPTION: The bolt anchor 1988 is a cast in place anchor that consists of a hexagonal bolt (no corrosion finish) with a steel pipe sleeve that is crimped on to the end of the bolt. The sleeve has an electro-plated corrosion finish (GV or Yellow Zinc) and is manufactured from a steel precision tubing. An optional plastic data clip is attached to the opening to clearly identify the system once cast into concrete.

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 Yes No

Percent Weight and Role Provided?

Screened Yes No

Using Priority Hazard Lists with Results Disclosed?

Identified Yes No

Name and Identifier Provided?

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

DEMU BOLT ANCHOR 1988 [STEEL NoGS CARBON LT-UNK ZINC LT-P1 |
AQU | END | MUL | PHY MANGANESE LT-P1 | END | MUL | REP SILICON LT-
UNK PHOSPHORUS BM-2 | MAM | PHY SULFUR LT-UNK | SKI]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen

Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

HALFEN worked with the the HPDC Approved Preparer, ToxServices LLC, to screen all intentionally added ingredients in the product formulation to the level of 100 ppm (0.01%).

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Residential scenario

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: ToxServices LLC

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-03-29

PUBLISHED DATE: 2018-07-20

EXPIRY DATE: 2021-03-29



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

DEMU BOLT ANCHOR 1988

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: HALFEN worked with the the HPDC Approved Preparer, ToxServices LLC, to screen all intentionally added ingredients and all residuals/impurities that are present in product formulation to the level of 100ppm (0.01%)

OTHER PRODUCT NOTES:

STEEL

ID: 12597-69-2

#: 99.1100 - 99.8200 GS: NoGS RC: None NANO: No ROLE: Structure Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES:

CARBON

ID: 7440-44-0

#: 0.1100 - 0.3400 GS: LT-UNK RC: None NANO: No ROLE: Structure Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES:

ZINC

ID: 7440-66-6

#: 0.0300 - 0.0300 GS: LT-P1 RC: None NANO: No ROLE: Finish Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life

CHRON AQUATIC

EU - GHS (H-Statements)

H410 - Very toxic to aquatic life with long lasting effects

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to

Class 2 - Hazard to Waters

Waters

| | | |
|----------------------------|-------------------------|--|
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H250 - Catches fire spontaneously if exposed to air |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H260 - In contact with water releases flammable gases which may ignite spontaneously |

3rd Party Screened

SUBSTANCE NOTES:

MANGANESE

ID: 7439-96-5

#: **0.0000 - 0.3300** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Structure Component**

| | |
|--------------|---|
| HAZARDS: | AGENCY(IES) WITH WARNINGS: |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor |
| MULTIPLE | German FEA - Substances Hazardous to Waters Class 2 - Hazard to Waters |
| REPRODUCTIVE | Japan - GHS Toxic to reproduction - Category 1B |

3rd Party Screened

SUBSTANCE NOTES:

SILICON

ID: 7440-21-3

#: **0.0000 - 0.0900** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Structure Component**

| | |
|------------|---|
| HAZARDS: | AGENCY(IES) WITH WARNINGS: |
| None Found | No warnings found on HPD Priority lists |

3rd Party Screened

SUBSTANCE NOTES:

PHOSPHORUS

ID: 7723-14-0

#: **0.0000 - 0.0200** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Structure Component**

| | |
|----------------------------|---|
| HAZARDS: | AGENCY(IES) WITH WARNINGS: |
| MAMMALIAN | US EPA - EPCRA Extremely Hazardous Substances Extremely Hazardous Substances |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) H228 - Flammable solid |

3rd Party Screened

SUBSTANCE NOTES:

SULFUR

ID: 7704-34-9

%: **0.0000 - 0.0200**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Structure Component**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

3rd Party Screened

SUBSTANCE NOTES:

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

CDPH Standard Method V1.2 (Section 01350/CHPS) - Residential scenario

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **No VOC Testing Performed**

07-12

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.

PLASTIC DATA CLIP

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

An optional HDPE plastic data clip is attached to the opening to clearly identify the system once cast into concrete. The review of the HDPE plastic clip was not included under this HPD.

Section 5: General Notes

HALFEN worked with the HPDC Approved Preparer, ToxServices LLC, to confirm that full formulation disclosure was properly obtained to the 100 ppm level, and that all residuals and impurities have been considered under the preparation of this HPD.



MANUFACTURER INFORMATION

MANUFACTURER: **HALFEN GmbH**

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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

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

BM-2 Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1

LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

NoGS Unknown (no data on List Translator Lists)

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.