

CLASSIFICATION: 01 73 23

PRODUCT DESCRIPTION: HTA-CE(HTA) HZA Anchor Channel – The product portfolio of HALFEN cast-in anchor channel systems comprise cast-in anchor channels type HTA-CE (HTA), and type HZA, with corresponding hook-head channel bolts and hammer-head channel bolts identified as HS (for HTA-CE and HTA), and HZS (for HZA). The anchor channel comprises a C-shaped steel profile with mounted anchors on the channel back. These anchors are formed as round bolt anchors or I-anchors. The anchors are mounted on the channel back by riveting (round bolt anchors) or welding (I-anchors). The assembled channels are the hot dip galvanized to provide corrosion protection. The inner section of the channel is then filled with a PE foam which prevents concrete from entering the channel during casting of the 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

HTA & HZA HDG ANCHOR CHANNELS [STEEL NoGS ZINC LT-P1 | AQU | PHY | END | MUL POLYETHYLENE LT-UNK MANGANESE LT-P1 | END | MUL | REP COPPER LT-UNK CARBON LT-UNK PHOSPHORUS BM-2 | PHY | MAM LEAD LT-1 | MAM | DEL | CAN | PBT | REP | AQU | MUL | END | GEN SILICON LT-UNK SULFUR LT-UNK | SKI ALUMINUM LT-P1 | RES | PHY | END ISOBUTANE LT-P1 | PHY | GEN | CAN PROPANE LT-UNK | PHY UNDISCLOSED CHEMICAL #1 LT-UNK]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

HALFEN worked with the the HPD Third Party Preparer, ToxServices LLC, to screen all intentionally added ingredients in the two product formulations to 100 ppm (0.01%).

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

No certifications have been added to this HPD.

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-03-06

PUBLISHED DATE: 2018-03-29

EXPIRY DATE: 2021-03-06



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

HTA & HZA HDG ANCHOR CHANNELS

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: HALFEN worked with the HPD Third Party Preparer, ToxServices LLC, to confirm that all residuals and impurities have been considered for both HALFEN product formulations under this current HPD.

OTHER PRODUCT NOTES:

STEEL

ID: 12597-69-2

#: 94.2200 - 95.4100 GS: NoGS RC: None NANO: No ROLE: Structure Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ZINC

ID: 7440-66-6

#: 2.9400 - 2.9700 GS: LT-P1 RC: None NANO: No ROLE: Coating 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

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

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES:

POLYETHYLENE

ID: 9002-88-4

%: **0.9200 - 1.0000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Foam Component**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MANGANESE

ID: **7439-96-5**

%: **0.5400 - 0.6000**

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

SUBSTANCE NOTES:

COPPER

ID: **7440-50-8**

%: **0.4000 - 0.4500**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Structure Component**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CARBON

ID: **7440-44-0**

%: **0.1300 - 0.1400**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Structure Component**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

PHOSPHORUS

ID: **7723-14-0**

%: **0.0700 - 0.0800**

GS: **BM-2**

RC: **None**

NANO: **No**

ROLE: **Structure Component**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

MAMMALIAN

US EPA - EPCRA Extremely Hazardous

Extremely Hazardous Substances

SUBSTANCE NOTES:

LEAD

ID: 7439-92-1

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
%: 0.0420 - 0.0420	GS: LT-1	RC: None
		NANO: No
		ROLE: Coating Component
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
DEVELOPMENTAL	EU - R-phrases	R61 - May cause harm to the unborn child
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Priority PBTs (PPT)	Priority PBT
PBT	US EPA - Toxics Release Inventory PBTs	PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
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
DEVELOPMENTAL	EU - GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to

impair fertility or cause Developmental Toxicity in humans

MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A

SUBSTANCE NOTES:

SILICON

ID: 7440-21-3

#: 0.0400 - 0.0500 GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Structure Component**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

SULFUR

ID: 7704-34-9

#: 0.0200 - 0.0300 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

SUBSTANCE NOTES:

ALUMINUM

ID: 7429-90-5

#: 0.0190 - 0.1700 GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Structure Component**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES:

ISOBUTANE

ID: 75-28-5

#: 0.0000 - 0.0500 GS: LT-P1 RC: None NANO: No ROLE: Foam Component

HAZARDS: AGENCY(IES) WITH WARNINGS:

PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H220 - Extremely flammable gas
GENE MUTATION	Australia - GHS	H340 - May cause genetic defects
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES:

PROPANE

ID: 74-98-6

#: 0.0000 - 0.0500 GS: LT-UNK RC: None NANO: No ROLE: Foam Component

HAZARDS: AGENCY(IES) WITH WARNINGS:

PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H220 - Extremely flammable gas
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SUBSTANCE NOTES:

UNDISCLOSED CHEMICAL #1

ID: Not registered

#: 0.0000 - 0.0200 GS: LT-UNK RC: None NANO: No ROLE: Foam Component

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: This chemical is proprietary to HALFEN's foam supplier. ToxServices LLC worked with HALFEN's supplier to obtain the proprietary disclosure and properly screened the CAS# using the HPD 2.1 Builder Screening Tool. No Hazards were identified for this Undisclosed CAS#.

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.

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.

HS T-BOLTS AND HZS T-BOLTS

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

HALFEN carbon steel HS T-bolts (for HTA-CE and HTA) and HZS T-bolts (for HZA) are hook-head and hammer head channel bolts that are used to fasten components to the HTA/HZA HDG Anchor Channels. The channels bolts consist of a threaded bolt , hexagonal nut and washer.

Section 5: General Notes

HALFEN worked with the HPD Third Party Preparer, ToxServices LLC, to confirm that full formulation disclosure was 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.