

**HPD UNIQUE IDENTIFIER:** 1502201856

**CLASSIFICATION:** 09 22 16 Non-Structural Metal Framing

**PRODUCT DESCRIPTION:** The CT Shaft Wall System is CEMCO's solution for fire-rated shaft walls, stairwells, and horizontal ceilings. Available in web depths of 2-1/2", 4" and 6" in 20 gauge (33 mil), and 18 gauge (43 mil) thicknesses with corresponding J-Tracks. The CT Shaft Wall System is the industry's most flexible in that many gypsum board and gypsum Shaftliner manufacturers are approved in several UL fire-rated assemblies for both 1 and 2-hour ratings. All CT studs and runners manufactured by CEMCO are produced from hot-dipped galvanized steel in standard G40 (33 mil) and G60 (43 mil) coating. G60 (33 mil) and G90 (33 mil & 43 mil) available upon special request.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

| Inventory Reporting Format                               | Threshold Level                          | Residuals/Impurities Evaluation                               |                                                                                    |
|----------------------------------------------------------|------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------|
| <input checked="" type="radio"/> Nested Materials Method | <input checked="" type="radio"/> 100 ppm | Completed in 3 of 3 Materials                                 | <i>For all contents above the threshold, the manufacturer has:</i>                 |
| <input type="radio"/> Basic Method                       | <input type="radio"/> 1,000 ppm          |                                                               | <b>Characterized</b> <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Threshold Disclosed Per                                  |                                          | Explanation(s) provided for Residuals/Impurities?             |                                                                                    |
| <input type="radio"/> Material                           | <input type="radio"/> Per GHS SDS        |                                                               | <i>Provided weight and role.</i>                                                   |
| <input checked="" type="radio"/> Product                 | <input type="radio"/> Other              | <input checked="" type="radio"/> Yes <input type="radio"/> No | <b>Screened</b> <input checked="" type="radio"/> Yes <input type="radio"/> No      |
|                                                          |                                          |                                                               | <i>Provided screening results using HPDC-approved methods.</i>                     |
|                                                          |                                          |                                                               | <b>Identified</b> <input checked="" type="radio"/> Yes <input type="radio"/> No    |
|                                                          |                                          |                                                               | <i>Provided name and CAS RN or other identifier.</i>                               |

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.

**NESTED MATERIAL** | **MATERIAL OR SUBSTANCE** | *RESIDUAL OR IMPURITY*

**GREENSCREEN SCORE** | HAZARD TYPE

**BASE STEEL** [ **IRON, ELEMENTAL** **LT-P1** ] END **MANGANESE** **LT-P1** ] END | MUL | REP | MAM | AQU **CARBON** **LT-UNK** **COPPER** **LT-P1** ] MUL | AQU | MAM **ALUMINUM** **BM-1** ] END | MAM | PHY **NICKEL** **LT-1** ] CAN | MUL | RES | MAM | SKI | AQU **CHROMIUM** **LT-P1** ] END | SKI | MAM | REP | RES **SILICON, ELEMENTAL** **LT-UNK** **PHOSPHORUS** **BM-2** ] MAM | PHY | EYE | AQU | SKI **MOLYBDENUM** **LT-UNK** ] MAM | SKI | REP **TITANIUM** **LT-UNK** ] PHY ] **ZINC COATING** [ **ZINC, ELEMENTAL** **LT-P1** ] | MUL | AQU **ALUMINUM** **BM-1** ] END | MAM | PHY ] **PASSIVATION COATING** [ ]

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

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, BM-1, LT-1

Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**

Antimicrobial Pesticides Reporting: This product does not contain substance(s) that are intentionally added above the [Product - 100 ppm] threshold to act as antimicrobials.

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.3, and discloses hazards associated with all substances present at or above 100 parts per million (ppm) in the finished product, along with the role and percent weight.

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

LCA: Environmental Product Declaration (EPD) by SCS

Evaluation Report: ICC-ES Evaluation Report

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.

Pre-checked for LEED v4.1 Option 1.

|                                     |                         |                            |
|-------------------------------------|-------------------------|----------------------------|
| Third Party Verified?               | PREPARER: Self-Prepared | SCREENING DATE: 2025-02-07 |
| <input type="radio"/> Yes           | VERIFIER:               | PUBLISHED DATE: 2025-02-07 |
| <input checked="" type="radio"/> No | VERIFICATION #:         | EXPIRY DATE: 2028-02-07    |

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.3, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-3-standard](http://www.hpd-collaborative.org/hpd-2-3-standard)

**%: 96.3000 - 98.3000**

MATERIAL TYPE: Metal

OTHER MATERIAL NOTES: CT Shaft Wall Studs and J-Runners are cold-formed from steel coils complying with ASTM A1003 Type NS Grade 40.

## ID: 7439-89-6

HAZARD SCREENING DATE: 2025-02-07 11:16:06

SUBSTANCE ROLE: **Structure component**

## WARNINGS

### Potential Endocrine Disruptor

## NOTIFICATION

No listings found on Additional Hazard Lists

ID: 7439-96-5

HAZARD SCREENING DATE: 2025-02-07 11:16:06

SUBSTANCE ROLE: Alloy element

| HAZARD TYPE         | LIST NAME AND SOURCE                                    | WARNINGS                                                                                                                                                  |
|---------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| END                 | TEDX - Potential Endocrine Disruptors                   | Potential Endocrine Disruptor                                                                                                                             |
| MUL                 | German FEA - Substances Hazardous to Waters             | Class 3 - Severe Hazard to Waters                                                                                                                         |
| REP                 | GHS - Japan                                             | H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]                                                                     |
| MAM                 | GHS - Japan                                             | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM                 | GHS - Australia                                         | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]                   |
| AQU                 | GHS - New Zealand                                       | Hazardous to the aquatic environment - chronic category 3                                                                                                 |
| AQU                 | GHS - Japan                                             | H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]                                                                  |
| AQU                 | GHS - Japan                                             | H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]                                      |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials    |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                         |
| SUBSTANCE NOTES:    |                                                         |                                                                                                                                                           |

CARBON

ID: 7440-44-0

| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                       |                                                             | HAZARD SCREENING DATE: <b>2025-02-07 11:16:07</b> |                                      |
|------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------|---------------------------------------------------|--------------------------------------|
| %: <b>0.0300 - 0.2000</b>                                        | GreenScreen: <b>LT-UNK</b>            | RC: <b>None</b>                                             | NANO: <b>No</b>                                   | SUBSTANCE ROLE: <b>Alloy element</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE                  | WARNINGS                                                    |                                                   |                                      |
| None found                                                       |                                       | No warnings found on HPD Priority Hazard Lists              |                                                   |                                      |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE                  | NOTIFICATION                                                |                                                   |                                      |
| RESTRICTED LIST                                                  | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br><br>Antimicrobials |                                                   |                                      |

SUBSTANCE NOTES:

COPPER

ID: 7440-50-8

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-02-07 11:16:07

|                     |                                                         |                                                                                                                      |          |                               |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------|-------------------------------|
| %: 0.0100 - 0.0900  | GreenScreen: LT-P1                                      | RC: None                                                                                                             | NANO: No | SUBSTANCE ROLE: Alloy element |
| HAZARD TYPE         | LIST NAME AND SOURCE                                    | WARNINGS                                                                                                             |          |                               |
| MUL                 | German FEA - Substances Hazardous to Waters             | Class 3 - Severe Hazard to Waters                                                                                    |          |                               |
| AQU                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2] |          |                               |
| MAM                 | GHS - Japan                                             | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]              |          |                               |
| MAM                 | GHS - Japan                                             | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]     |          |                               |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                         |          |                               |
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List                                                                                             |          |                               |
|                     |                                                         | Precautionary list of substances recommended for avoidance                                                           |          |                               |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List                                                                                |          |                               |
|                     |                                                         | Antimicrobials                                                                                                       |          |                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022                        |          |                               |
|                     |                                                         | Biological and Environmentally Released Materials                                                                    |          |                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022                        |          |                               |
|                     |                                                         | Children's Products                                                                                                  |          |                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024                                   |          |                               |
|                     |                                                         | Children's Toy Products                                                                                              |          |                               |

SUBSTANCE NOTES:

ALUMINUM

ID: 7429-90-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-02-07 11:16:08

|                    |                   |          |          |                               |
|--------------------|-------------------|----------|----------|-------------------------------|
| %: 0.0300 - 0.0700 | GreenScreen: BM-1 | RC: None | NANO: No | SUBSTANCE ROLE: Alloy element |
|--------------------|-------------------|----------|----------|-------------------------------|

| HAZARD TYPE         | LIST NAME AND SOURCE                                     | WARNINGS                                                                                                                                                  |
|---------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| END                 | TEDX - Potential Endocrine Disruptors                    | Potential Endocrine Disruptor                                                                                                                             |
| MAM                 | GHS - Japan                                              | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM                 | GHS - Japan                                              | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |
| PHY                 | GHS - Japan                                              | H261 - In contact with water releases flammable gas [Substances and mixtures, which in contact with water, emit flammable gases - Category 2]             |
| PHY                 | GHS - Malaysia                                           | H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]                                                  |
| PHY                 | GHS - Australia                                          | H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]                                                  |
| PHY                 | GHS - New Zealand                                        | Pyrophoric solids category 1                                                                                                                              |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                                                                              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials    |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                         |

SUBSTANCE NOTES: GreenScreen Benchmark® assessment score of BM-1 was provided by the HPD Builder Tool.

|                                                           |                   |          |                                            |                               |               |
|-----------------------------------------------------------|-------------------|----------|--------------------------------------------|-------------------------------|---------------|
| NICKEL                                                    |                   |          |                                            |                               | ID: 7440-02-0 |
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                   |          | HAZARD SCREENING DATE: 2025-02-07 11:16:06 |                               |               |
| %: 0.0100 - 0.0600                                        | GreenScreen: LT-1 | RC: None | NANO: No                                   | SUBSTANCE ROLE: Alloy element |               |

| HAZARD TYPE | LIST NAME AND SOURCE                        | WARNINGS                                                                                                                                                  |
|-------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAN         | US CDC - Occupational Carcinogens           | Occupational Carcinogen                                                                                                                                   |
| CAN         | MAK                                         | Carcinogen Group 1 - Substances that cause cancer in man                                                                                                  |
| MUL         | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters                                                                                                                         |
| CAN         | IARC                                        | Group 1 - Agent is Carcinogenic to humans                                                                                                                 |
| CAN         | CA EPA - Prop 65                            | Carcinogen                                                                                                                                                |
| CAN         | US NIH - Report on Carcinogens              | Known to be a human Carcinogen                                                                                                                            |
| CAN         | IARC                                        | Group 2b - Possibly carcinogenic to humans                                                                                                                |
| CAN         | US NIH - Report on Carcinogens              | Reasonably Anticipated to be Human Carcinogen                                                                                                             |
| RES         | MAK                                         | Sensitizing Substance Sah - Danger of airway & skin sensitization                                                                                         |
| CAN         | EU - GHS (H-Statements) Annex 6 Table 3-1   | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                                         |
| MAM         | EU - GHS (H-Statements) Annex 6 Table 3-1   | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]                   |
| CAN         | GHS - New Zealand                           | Carcinogenicity category 2                                                                                                                                |
| CAN         | GHS - Japan                                 | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                                         |
| MAM         | GHS - Japan                                 | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM         | GHS - Australia                             | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]                   |
| MAM         | GHS - Japan                                 | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |
| CAN         | EU - Annex VI CMRs                          | Carcinogen Category 2 - Suspected human Carcinogen                                                                                                        |
| SKI         | GHS - New Zealand                           | Skin sensitisation category 1                                                                                                                             |
| AQU         | GHS - New Zealand                           | Hazardous to the aquatic environment - acute category 1                                                                                                   |
| AQU         | GHS - New Zealand                           | Hazardous to the aquatic environment - chronic category 1                                                                                                 |
| CAN         | GHS - Australia                             | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                                         |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                           |
|---------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br><br>Certain Metals                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Footwear, Apparel & Jewelry Products              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>All Products                                                 |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Cosmetics and Personal Care Products                         |

SUBSTANCE NOTES:

| CHROMIUM                                                  |                                       |                                            |                                                                                                                            | ID: 7440-47-3                 |
|-----------------------------------------------------------|---------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                                       | HAZARD SCREENING DATE: 2025-02-07 11:16:07 |                                                                                                                            |                               |
| %: 0.0200 - 0.0400                                        | GreenScreen: LT-P1                    | RC: None                                   | NANO: No                                                                                                                   | SUBSTANCE ROLE: Alloy element |
| HAZARD TYPE                                               | LIST NAME AND SOURCE                  |                                            | WARNINGS                                                                                                                   |                               |
| END                                                       | TEDX - Potential Endocrine Disruptors |                                            | Potential Endocrine Disruptor                                                                                              |                               |
| SKI                                                       | MAK                                   |                                            | Sensitizing Substance Sh - Danger of skin sensitization                                                                    |                               |
| MAM                                                       | GHS - Japan                           |                                            | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]                    |                               |
| REP                                                       | GHS - New Zealand                     |                                            | Reproductive toxicity category 2                                                                                           |                               |
| RES                                                       | GHS - Japan                           |                                            | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1A] |                               |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                           |
|---------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Cosmetics & Personal Care Products                |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Cosmetics and Personal Care Products                         |
| SUBSTANCE NOTES:    |                                                         |                                                                                                                                                        |

**SILICON, ELEMENTAL**

ID: **7440-21-3**

|                                                                  |                            |                 |                                                   |                                      |
|------------------------------------------------------------------|----------------------------|-----------------|---------------------------------------------------|--------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                 | HAZARD SCREENING DATE: <b>2025-02-07 11:16:07</b> |                                      |
| %: <b>0.0100 - 0.0300</b>                                        | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b> | NANO: <b>No</b>                                   | SUBSTANCE ROLE: <b>Alloy element</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE       |                 | WARNINGS                                          |                                      |
| None found                                                       |                            |                 | No warnings found on HPD Priority Hazard Lists    |                                      |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE       |                 | NOTIFICATION                                      |                                      |
| None found                                                       |                            |                 | No listings found on Additional Hazard Lists      |                                      |
| SUBSTANCE NOTES:                                                 |                            |                 |                                                   |                                      |

**PHOSPHORUS**

ID: **7723-14-0**

|                                                                  |                          |                 |                                                   |                                      |
|------------------------------------------------------------------|--------------------------|-----------------|---------------------------------------------------|--------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          |                 | HAZARD SCREENING DATE: <b>2025-02-07 11:16:08</b> |                                      |
| %: <b>0.0100 - 0.0200</b>                                        | GreenScreen: <b>BM-2</b> | RC: <b>None</b> | NANO: <b>No</b>                                   | SUBSTANCE ROLE: <b>Alloy element</b> |

| HAZARD TYPE         | LIST NAME AND SOURCE                                     | WARNINGS                                                                                      |
|---------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| MAM                 | US EPA - EPCRA Extremely Hazardous Substances            | Extremely Hazardous Substances                                                                |
| MAM                 | GHS - New Zealand                                        | Specific target organ toxicity - repeated exposure category 1                                 |
| PHY                 | GHS - New Zealand                                        | Pyrophoric solids category 1                                                                  |
| EYE                 | GHS - New Zealand                                        | Serious eye damage category 1                                                                 |
| AQU                 | GHS - New Zealand                                        | Hazardous to the aquatic environment - acute category 1                                       |
| AQU                 | GHS - New Zealand                                        | Hazardous to the aquatic environment - chronic category 1                                     |
| MAM                 | Québec CSST - WHMIS 1988                                 | Class D1A - Very toxic material causing immediate and serious toxic effects                   |
| SKI                 | GHS - New Zealand                                        | Skin corrosion category 1A                                                                    |
| MAM                 | GHS - New Zealand                                        | Acute dermal toxicity category 1                                                              |
| MAM                 | GHS - New Zealand                                        | Acute inhalation toxicity category 1                                                          |
| MAM                 | GHS - New Zealand                                        | Acute oral toxicity category 1                                                                |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |
|                     |                                                          | Cosmetics & Personal Care Products                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024            |
|                     |                                                          | Cosmetics and Personal Care Products                                                          |

SUBSTANCE NOTES: GreenScreen Benchmark® assessment score of BM-2 was provided by the HPD Builder Tool.

|                                                           |                      |          |                                                                                                         |                               |  |
|-----------------------------------------------------------|----------------------|----------|---------------------------------------------------------------------------------------------------------|-------------------------------|--|
| MOLYBDENUM                                                |                      |          |                                                                                                         | ID: 7439-98-7                 |  |
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                      |          | HAZARD SCREENING DATE: 2025-02-07 11:16:08                                                              |                               |  |
| %: 0.0000 - 0.0200                                        | GreenScreen: LT-UNK  | RC: None | NANO: No                                                                                                | SUBSTANCE ROLE: Alloy element |  |
| HAZARD TYPE                                               | LIST NAME AND SOURCE |          | WARNINGS                                                                                                |                               |  |
| MAM                                                       | GHS - Japan          |          | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3] |                               |  |
| SKI                                                       | GHS - Japan          |          | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]                                |                               |  |
| REP                                                       | GHS - New Zealand    |          | Reproductive toxicity category 2                                                                        |                               |  |
| ADDITIONAL LISTINGS                                       | LIST NAME AND SOURCE |          | NOTIFICATION                                                                                            |                               |  |
| None found                                                |                      |          | No listings found on Additional Hazard Lists                                                            |                               |  |

SUBSTANCE NOTES:

TITANIUM

ID: 7440-32-6

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-02-07 11:16:09

|                     |                      |          |                                                                                          |                               |
|---------------------|----------------------|----------|------------------------------------------------------------------------------------------|-------------------------------|
| %: 0.0000 - 0.0200  | GreenScreen: LT-UNK  | RC: None | NANO: No                                                                                 | SUBSTANCE ROLE: Alloy element |
| HAZARD TYPE         | LIST NAME AND SOURCE |          | WARNINGS                                                                                 |                               |
| PHY                 | GHS - Japan          |          | H225 - Highly flammable liquid and vapour [Flammable solids - Category 1]                |                               |
| PHY                 | GHS - Japan          |          | H250 - Catches fire spontaneously if exposed to air [Pyrophoric solids - Category 1]     |                               |
| PHY                 | GHS - Japan          |          | H251 - Self-heating;; may catch fire [Self-heating substances and mixtures - Category 1] |                               |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE |          | NOTIFICATION                                                                             |                               |
| None found          |                      |          | No listings found on Additional Hazard Lists                                             |                               |

SUBSTANCE NOTES:

ZINC COATING

%: 1.7000 - 3.7000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier disclosures and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Standard G40 and G60 hot dipped galvanized steel manufactured per ASTM A653.

ZINC, ELEMENTAL

ID: 7440-66-6

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-02-07 11:16:09

|                      |                                             |          |                                                           |                         |
|----------------------|---------------------------------------------|----------|-----------------------------------------------------------|-------------------------|
| %: 99.2000 - 99.5000 | GreenScreen: LT-P1                          | RC: None | NANO: No                                                  | SUBSTANCE ROLE: Coating |
|                      |                                             |          |                                                           |                         |
| HAZARD TYPE          | LIST NAME AND SOURCE                        |          | WARNINGS                                                  |                         |
| MUL                  | German FEA - Substances Hazardous to Waters |          | Class 3 - Severe Hazard to Waters                         |                         |
| AQU                  | GHS - New Zealand                           |          | Hazardous to the aquatic environment - acute category 1   |                         |
| AQU                  | GHS - New Zealand                           |          | Hazardous to the aquatic environment - chronic category 1 |                         |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                           |
|---------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br><br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                      |
| SUBSTANCE NOTES:    |                                                         |                                                                                                                                                        |

| ALUMINUM                                                         |                                       |                                                                                                                                                           |                                                   | ID: 7429-90-5                  |
|------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                       |                                                                                                                                                           | HAZARD SCREENING DATE: <b>2025-02-07 11:16:10</b> |                                |
| %: <b>0.1000 - 0.5000</b>                                        | GreenScreen: <b>BM-1</b>              | RC: <b>None</b>                                                                                                                                           | NANO: <b>No</b>                                   | SUBSTANCE ROLE: <b>Coating</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE                  | WARNINGS                                                                                                                                                  |                                                   |                                |
| END                                                              | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor                                                                                                                             |                                                   |                                |
| MAM                                                              | GHS - Japan                           | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |                                                   |                                |
| MAM                                                              | GHS - Japan                           | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |                                                   |                                |
| PHY                                                              | GHS - Japan                           | H261 - In contact with water releases flammable gas [Substances and mixtures, which in contact with water, emit flammable gases - Category 2]             |                                                   |                                |
| PHY                                                              | GHS - Malaysia                        | H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]                                                  |                                                   |                                |
| PHY                                                              | GHS - Australia                       | H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]                                                  |                                                   |                                |
| PHY                                                              | GHS - New Zealand                     | Pyrophoric solids category 1                                                                                                                              |                                                   |                                |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                           |
|---------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                      |

SUBSTANCE NOTES: GreenScreen Benchmark® assessment score of BM-1 was provided by the HPD Builder Tool.

|                                                                                                                                                                                                       |                                                    |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------|
| PASSIVATION COATING                                                                                                                                                                                   | %: 0.0000 - 0.0010                                 |                                           |
| PRODUCT THRESHOLD: 100 ppm                                                                                                                                                                            | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes | MATERIAL TYPE: Other: Corrosion Inhibitor |
| RESIDUALS AND IMPURITIES NOTES: As all substances in this material are below the reportable threshold, no residuals or impurities are possible at or above the Content Inventory Threshold indicated. |                                                    |                                           |
| OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold. Passivation coatings for corrosion resistance are an industry standard for this type of material.           |                                                    |                                           |

## 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<br>APPLICABLE FACILITIES: City of Industry, CA 91746; Pittsburgh, CA 94565; Denver, CO 80204; Fort Worth, TX 76140<br>CERTIFICATE URL:<br>CERTIFICATION AND COMPLIANCE NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ISSUE DATE: 2024-09-19 00:00:00<br>EXPIRY DATE:                     | CERTIFIER OR LAB: None                   |
| LCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Environmental Product Declaration (EPD) by SCS                      |                                          |
| CERTIFYING PARTY: Third Party<br>APPLICABLE FACILITIES: City of Industry, CA 91746; Pittsburgh, CA 94565; Denver, CO 80204; Fort Worth, TX 76140<br>CERTIFICATE URL: <a href="https://tinyurl.com/4s6ptymh">https://tinyurl.com/4s6ptymh</a><br>CERTIFICATION AND COMPLIANCE NOTES: Declaration Owner: CEMCO LLC. Declaration Number: SCS-EPD-08938. Products: Cold-formed Steel Framing and Accessories. Declared Unit: One metric ton of steel framing product. Product Category Rule: PCR Guidance for Version 3.2. UL Environment. Sept. 2018; PCR Guidance for Building-Related Products and Services. Part B: Designated Steel Construction Product EPD Requirements. UL Environment. August 2020. EPD Scope: Cradle-to-Gate. | ISSUE DATE: 2023-05-03 00:00:00<br>EXPIRY DATE: 2028-05-02 00:00:00 | CERTIFIER OR LAB: SCS Global Services    |
| EVALUATION REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ICC-ES Evaluation Report                                            |                                          |
| CERTIFYING PARTY: Third Party<br>APPLICABLE FACILITIES: City of Industry, CA 91746; Pittsburgh, CA 94565; Denver, CO 80204; Fort Worth, TX 76140<br>CERTIFICATE URL: <a href="https://tinyurl.com/3bbd4use">https://tinyurl.com/3bbd4use</a><br>CERTIFICATION AND COMPLIANCE NOTES: ESR-4934. IAPMO Evaluation Subject: CT Shaft Wall Systems. Evaluation Scope includes compliance with the following codes: 2021, 2018 and 2015 International Building Code® (IBC); 2021, 2018, 2015 International Residential Code® (IRC). Properties Evaluated: Structural.                                                                                                                                                                     | ISSUE DATE: 2024-12-01 00:00:00<br>EXPIRY DATE: 2026-12-01 00:00:00 | CERTIFIER OR LAB: ICC Evaluation Service |

## 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.

| TYPE X GYPSUM BOARD                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MANUFACTURER (OR GENERIC): Generic                                                                                                                                                                         |
| HPD URL: No HPD available<br>ACCESSORY TYPE: Installation Accessory<br>CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: See ICC-ES Evaluation Report ESR-4934 Table 2 for Gypsum Specifications. |
| FASTENERS                                                                                                                                                                                                  |
| MANUFACTURER (OR GENERIC): Generic                                                                                                                                                                         |

 **Section 5: General Notes**

CEMCO's CT shaft wall studs and J-Runners meet code requirements AISI S100, S220 North American Standard for Cold-Formed Nonstructural Framing, Material Specification (ASTM) A1003/A653/A924; Product Specification (ASTM) C645; Coating Specification (ASTM) A1003/A653/A924; Installation (ASTM) C754.

## MANUFACTURER INFORMATION

MANUFACTURER: **CEMCO**  
ADDRESS: **13191 Crossroads Pkwy. North**  
**Suite 325**  
**City of Industry, CA 91746**  
COUNTRY: **USA**

WEBSITE: **www.cemcosteel.com**  
CONTACT NAME: **Fernando Sesma**  
TITLE: **Director of Technical Services**  
PHONE: **800.416.2278**  
EMAIL: **fsesma@cemcosteel.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

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

### GreenScreen (GS)

|                                                                     |                                                                |
|---------------------------------------------------------------------|----------------------------------------------------------------|
| <b>BM-4</b> Benchmark 4 (prefer-safer chemical)                     | <b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1) |
| <b>BM-3</b> Benchmark 3 (use but still opportunity for improvement) | <b>LT-1</b> List Translator 1 (Likely Benchmark-1)             |
| <b>BM-2</b> Benchmark 2 (use but search for safer substitutes)      | <b>LT-UNK</b> List Translator Benchmark Unknown                |
| <b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)          | <b>NoGS</b> No GreenScreen.                                    |
| <b>BM-U</b> Benchmark Unspecified (due to insufficient data)        |                                                                |

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://hpd-collaborative.org)).

### Recycled Types

|                                                     |
|-----------------------------------------------------|
| <b>PreC</b> Pre-consumer recycled content           |
| <b>PostC</b> Post-consumer recycled content         |
| <b>UNK</b> Inclusion of recycled content is unknown |
| <b>None</b> Does not include recycled content       |

### Other Terms:

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

### Inventory Methods:

|                                           |                                                                             |
|-------------------------------------------|-----------------------------------------------------------------------------|
| <b>Nested Method / Material Threshold</b> | Substances listed within each material per threshold indicated per material |
| <b>Nested Method / Product Threshold</b>  | Substances listed within each material per threshold indicated per product  |
| <b>Basic Method / Product Threshold</b>   | Substances listed individually per threshold indicated per product          |

|                              |                                                            |
|------------------------------|------------------------------------------------------------|
| <b>Nano</b>                  | Composed of nano scale particles or nanotechnology         |
| <b>Third Party Verified</b>  | Verification by independent certifier approved by HPDC     |
| <b>Preparer</b>              | Third party preparer, if not self-prepared by manufacturer |
| <b>Applicable facilities</b> | 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*

