# Product Name Hot-Dip Galvanized Steel - Prime Western Zinc by Product Manufacturer American Galvanizers Association

**Health Product** Declaration v2.1

created via: HPD Fillable Form

CLASSIFICATION: 09 097 13.23 Finishes: Exterior Steel Coatings

Hot-dip galvanizing is the process of immersing steel in molten zinc. There are three types of zinc run in galvanizing kettles in North America. This HPD covers Prime Western Zinc, which is comprised of 98% zinc metal. When applied to the steel product, the zinc coating will account for approximately 2% of the final material weight. This HPD takes into account the 2% zinc coating as well as the base steel - making it a complete HPD for a hot-dip galvanized steel product processed in a kettle with prime western zinc.



## **Section 1: Summary**

#### **Basic Method/Product Threshold**

#### CONTENT INVENTORY

Inventory Reporting Format Threshold Level Residuals/Impurities Are All Substances Above the Threshold Indicated: O Nested Materials Method O 100 ppm Considered Characterized Percent Weight and Role Provided? Basic Method O 1,000 ppm O Partially Considered Per GHS SDS O Not Considered Yes O No **Threshold Disclosed Per** Screened O Per OSHA MSDS Using Priority Hazard Lists with Results Disclosed? Material Explanation(s) provided O Other for Residuals/Impurities? O Product Identified Yes O No O 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.

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

Steel, 98% - UNK, Not found on HPD Priority List Zinc, 2% - UNK, Not found on HPD Priority List

Number of Greenscreen BM-4/BM-3 contents: UNK

Contents highest concern GreenScreen Benchmark or List translator Score: UNK

Nanomaterial: No contents are characterized as a nanomaterial

#### **INVENTORY AND SCREENING NOTES:**

Hot-dip galvanized coating comprises approximately only 2% of the final material weight. This HPD takes into account the 2% of Prime Western zinc coating as well as the base steel.

**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: N/A

#### **CONSISTENCY WITH OTHER PROGRAMS** N/A

Third Party Verified? **PREPARER** SCREENING DATE Yes VERIFIER: PUBLISHED DATE No VERIFICATION # EXPIRY DATE:



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

Hot-Dip Galvanized Steel -Prime West	ern Zinc					
PRODUCT THRESHOLD: per GHS SDS RESIDUALS AND IMPURITIES CONSIDERED: Considered						
RESIDUALS/IMPURITIES NOTES: Zinc per ASTM B 6 is the primary m	aterial used in th	ne coating for hot				
OTHER PRODUCT NOTES: Steel is the base material for the hot	t-dip galvanized	coating.				
Steel					ID: 12597-69-2	
%: 98	gs: UNK	RC: UNK	NANO: <b>No</b>	ROLE: Base		
HAZARDS None Found	No warnings	warnings: found on the HPI	D Priority Lists			
SUBSTANCE NOTES: Steel is the most recycled material in the world. The Steel Recycling Institute reports 56.9% post-consumer recycled content and 31.4% pre-consumer recycled content. https://ssabwebsitecdn.azureedge.net/-/media/files/en/americas/025-safety-data-sheetsteel-tube-structural-sdsssab002-102018.pdf?m=20181107141843						
Prime Western Zinc					ID: 7440-66-6	
<sup>%:</sup> 2	GS: UNK	RC: UNK	NANO: No	ROLE: Coating		
HAZARDS None	No warnings	HWARNINGS: found on the HPI	D Priority Lists			
	· ·		•			
SUBSTANCE NOTES:						
Correct hazard statements if any are listed in the SDS for Prime Western Zinc. General zinc health information can be found at the International Zinc Association's website at http://www.zinc.org. https://www.teck.com/media/Zinc-with-controlled-Lead.pdf						
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%:	GS:	RC:	NANO:	ROLE:		
HAZARDS	AGENCY(IES) WITH	H WARNINGS:				
SUBSTANCE NOTES:						
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# **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.

CERTIFICATION AND COMPLIANCE NOTES:  Type of Certification	VOC Emissions	Not Applicable - No VO	Not Applicable - No VOC Emissions			
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CERTIFICATION AND COMPLIANCE NOTES:  Type of Certification  Environmental Product Declaration for Hot-Dip Galvanized Structural Steel (LCA)  CERTIFICATION AND COMPLIANCE NOTES:  SISUE DATE: 9/22/2016  CERTIFICATION AND COMPLIANCE NOTES:  CERTIFICATION AND COMPLIANCE NOT	CERTIFIER OR LAB:					
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# **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.

### Not Applicable

HPD URL:

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:



**B** Section 5: General Notes



### Section 6: References

#### MANUFACTURER INFORMATION

MANUFACTURER: American Galvanizers Association

ADDRESS:

6881 S. Holly Circle, Suite 108 Centennial, CO 80112

WEBSITE: www.galvanizeit.org

CONTACT NAME: Thomas Langill, Ph.D.

TITLE: Technical Director

PHONE: 720-361-4486

EMAIL: aga@galvanizeit.org

KEY

**OSHA MSDS** Occupational Safety and Health Administration Material Safety Data Sheet

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

**Hazard Types** 

AQU Aquatic toxicity GLO Global warming PHY Physical Hazard (reactive) CAN MAM Mammalian/systemic/organ toxicity RFP Cancer Reproductive toxicity DEV MUL **RES** Developmental toxicity Multiple hazards Respiratory sensitization

END Endocrine activity NEU Neurotoxicity SKI Skin sensitization/irritation/corrosivity

EYE Eye irritation/corrosivity OZO Ozone depletion LAN Land Toxicity

**GEN** Gene mutation **PBT** Persistent Bioaccumulative Toxic **NF** Not found on Priority Hazard Lists

IT-P1

UNK

List Translator Possible Benchmark 1

from List Translator lists to benchmark)

Unknown (no data on List Translator Lists)

LT-UNK List Translator Benchmark Unknown (insufficient information

List Translator Likely Benchmark 1

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)

**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

Nano Composed of nanoscale particles or nanotechnology

**Declaration Level** 

**Self-declared** Manufacturer's self-declaration (First Party)

Independent Lab Manufacturer's self-declaration using results from an independent lab

Second Party Verification by trade association or other interested party

Third Party Verification by independent certifier

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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.

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