CONCRETE REINFORCING BAR/REBAR & MERCHANT BAR QUALITY by ArcelorMittal Long Products Canada

Health Product Declaration v2.1

created via: HPDC Online Builder

CLASSIFICATION: 03 21 00

PRODUCT DESCRIPTION: This HPD covers the following two products from ArcelorMittal Long Products Canada, CONCRETE REINFORCING BAR / REBAR and Merchant Bar Quality (MBQ). CONCRETE REINFORCING BAR / REBAR : Rebar is the foundation that provides tensile strength to concrete, which is why the official name is concrete reinforcing bar. It is a essential part of roads, buildings and infrastructures around the world. Concrete is a material that is very strong in compression, but relatively weak in tension. To compensate for this imbalance in concrete's behavior, rebar is cast into it to carry the tensile loads. MERCHANT BAR QUALITY: Merchant Bar Quality steel (MBQ) is specified when standard steel quality for non-critical applications is needed. These types of bars are generally used in structural type applications involving bending, forming, punching and welding. Merchant Bars are used by fabricators and manufacturers to produce a wide variety of products including steel frames and structures, brackets, steel floor and roof joists, walkways, ornamental furniture, railings, and more.

Section 1: Summary

CONTENT INVENTORY

Inventory Reporting Format

- C Nested Materials Method
- Basic Method

Threshold Disclosed Per

- C Material
- Product

Threshold level

- 100 ppm
 1,000 ppm
 Per GHS SDS
- C Per OSHA MSDS C Other

Residuals/Impurities

- ConsideredPartially Considered
- C Not Considered
- Explanation(s) provided for Residuals/Impurities?

Basic Method / Product Threshold

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

CONCRETE REINFORCING BAR/REBAR & MERCHANT BAR QUALITY [IRON LT-P1 | END CARBON LT-UNK PHOSPHORUS BM-2 | PHY | MAM MANGANESE LT-P1 | END | MUL | REP SULFUR LT-UNK | SKI SILICON LT-UNK COPPER LT-UNK NICKEL NoGS CHROMIUM LT-P1 | RES | END | SKI MOLYBDENUM LT-UNK VANADIUM LT-1 | MUL | CAN | GEN NIOBIUM LT-UNK NITROGEN NoGS T/N LT-UNK TITANIUM LT-UNK BORON LT-UNK CALCIUM LT-P1 | PHY LEAD LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN ARSENIC LT-1 | DEL | CAN | PBT | AQU | MAM | END | MUL | GEN COBALT LT-1 | RES | CAN | SKI | MUL | GEN | REP ANTIMONY LT-1 | AQU | CAN]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

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:

This HPD has been prepared using a Basic Inventory method with a product threshold of 100 ppm. The content inventory includes ranges to encompass both products by ArcelorMittal Long Products Canada: concrete reinforcing bars (rebars) and merchant bar quality (MBQ). Both steel products made by ArcelorMittal Long Products Canada contain materials with Special Conditions (metal alloy ingredients) as per the HPDC. Guidelines for reporting Special Conditions materials are still under development by HPDC. ArcelorMittal Long Products Canada will update the HPD accordingly once these guidelines get published. Substances present in rebars and MBQ products, as well as known residuals and impurities, have been disclosed at 100 ppm. Additional details about how residuals and impurities were considered are available in the appropriate section.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings. VOC emissions: Inherently non- emitting source per LEED®

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified? O Yes O No PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2018-09-18 PUBLISHED DATE: EXPIRY DATE: 2021-09-18 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

CONCRETE REINFORCING BAR/REBAR & MERCHANT BAR QUALITY

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals are present in the final product, however all known impurities above 100 ppm have been disclosed in the content inventory as such. Those impurities are essentially introduced in rebar and MBQ products through recycled scrap metals. The type and quantity of impurities are determined by ArcelorMittal Long Products Canada through chemical testing of production samples.

OTHER PRODUCT NOTES: Concrete Reinforcing bars and Merchant Bar Quality contains 5.2% and 7.11% of pre-consumer recycled content respectively, as well as 23.4% and 20.5% of post-consumer recycled content respectively.

IRON					ID: 7439-89-6	
%: 90.0000 - 99.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Based material for steel		
HAZARDS:	AGENCY(IES) WITH W	SENCY(IES) WITH WARNINGS:				
ENDOCRINE	TEDX - Potentia	TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor				
SUBSTANCE NOTES: See other mate	erial notes					
CARBON					ID: 7440-44-0	
%: 0.0000 - 0.4000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Based material for steel		
HAZARDS:	AGENCY(IES) WITH W	/ARNINGS:				
None Found	No warnings fo	und on HPD Priority lists	3			
SUBSTANCE NOTES: See other mate	erial notes					
PHOSPHORUS					ID: 7723-14-0	
%: Impurity/Residual	GS: BM-2	RC: None	NANO: NO	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH W	/ARNINGS:				
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-St	atements)	H228	- Flammable solid		
MAMMALIAN	US EPA - EPCF	A Extremely Hazardous	Extrer	nely Hazardous Substances		

	Substances				
SUBSTANCE NOTES: See other ma	terial notes				
MANGANESE					ID: 7439-96-5
%: 0.0000 - 1.6500	GS: LT-P1	RC: None	NANO: NO	ROLE: Alloy	
HAZARDS:	AGENCY(IES) WITH WARN	IINGS:			
ENDOCRINE	TEDX - Potential E	ndocrine Disruptors	Potential Endocrine Disruptor		
MULTIPLE	German FEA - Sub Waters	stances Hazardous to	Class 2 - Hazard to Waters		
REPRODUCTIVE	Japan - GHS		Toxic to reproduction - Catego	ory 1B	
SUBSTANCE NOTES: See other ma	terial notes				
SULFUR					ID: 7704-34-9
%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: NO ROLE: Impurit	ty/Residual	
HAZARDS:	AGENCY(IES) WITH WARN	IINGS:			
SKIN IRRITATION	EU - GHS (H-State	ments)	H315 - Causes skin irritation		
SUBSTANCE NOTES: See other ma	terial notes				
SILICON					ID: 7440-21-3
%: 0.0000 - 0.5000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Alloy	
HAZARDS:	AGENCY(IES) WITH WARN	IINGS:			
None Found	No warnings found	I on HPD Priority lists			
SUBSTANCE NOTES: See other ma	terial notes				
COPPER					ID: 7440-50-8
%: 0.0000 - 0.8000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Alloy	
HAZARDS:	AGENCY(IES) WITH WARN	IINGS:			
None Found	No warnings found	I on HPD Priority lists			

SUBSTANCE NOTES: See other material notes

NICKEL					ID: 8049-31-
%: 0.0000 - 0.3000	GS: NoGS	RC: None	NANO: NO	ROLE: Alloy	
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:			
None Found	No warnings found	d on HPD Priority lists			
SUBSTANCE NOTES: See othe	r material notes				
CHROMIUM					ID: 7440-47 -
%: 0.0000 - 0.3500	GS: LT-P1	RC: None	NANO: NO	ROLE: Alloy	
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:			
RESPIRATORY	AOEC - Asthmage	ens	Asthmagen (Rs) - sensit	tizer-induced	
ENDOCRINE	TEDX - Potential E	Endocrine Disruptors	Potential Endocrine Dis	ruptor	
SKIN SENSITIZE	MAK		Sensitizing Substance S	Sh - Danger of skin ser	sitization
SUBSTANCE NOTES: See othe	r material notes				ID: 7439-98 -
SUBSTANCE NOTES: See othe	r material notes				
SUBSTANCE NOTES: See othe MOLYBDENUM %: 0.0000 - 0.3000	r material notes GS: LT-UNK	RC: None	NANO: NO	ROLE: Alloy	id: 7439-98-
MOLYBDENUM			nano: No	role: Alloy	
MOLYBDENUM %: 0.0000 - 0.3000	GS: LT-UNK AGENCY(IES) WITH WAR		nano: No	ROLE: Alloy	
MOLYBDENUM %: 0.0000 - 0.3000 HAZARDS:	GS: LT-UNK AGENCY(IES) WITH WAR No warnings found	NINGS:	NANO: No	ROLE: Alloy	
MOLYBDENUM %: 0.0000 - 0.3000 HAZARDS: None Found	GS: LT-UNK AGENCY(IES) WITH WAR No warnings found	NINGS:	NANO: No	ROLE: Alloy	
MOLYBDENUM %: 0.0000 - 0.3000 HAZARDS: None Found SUBSTANCE NOTES: See othe	GS: LT-UNK AGENCY(IES) WITH WAR No warnings found	NINGS:	NANO: NO	ROLE: Alloy	
MOLYBDENUM %: 0.0000 - 0.3000 HAZARDS: None Found SUBSTANCE NOTES: See othe	GS: LT-UNK AGENCY(IES) WITH WARI No warnings found r material notes	NINGS: d on HPD Priority lists RC: None			
MOLYBDENUM %: 0.0000 - 0.3000 HAZARDS: None Found SUBSTANCE NOTES: See othe VANADIUM %: 0.0000 - 0.1000	GS: LT-UNK AGENCY(IES) WITH WAR No warnings found or material notes GS: LT-1 AGENCY(IES) WITH WAR	NINGS: d on HPD Priority lists RC: None		ROLE: Alloy	
MOLYBDENUM %: 0.0000 - 0.3000 HAZARDS: None Found SUBSTANCE NOTES: See othe VANADIUM %: 0.0000 - 0.1000 HAZARDS:	GS: LT-UNK AGENCY(IES) WITH WAR No warnings found or material notes GS: LT-1 AGENCY(IES) WITH WAR German FEA - Sut	NINGS: d on HPD Priority lists RC: None	NANO: NO	ROLE: Alloy	ID: 7440-62
MOLYBDENUM %: 0.0000 - 0.3000 HAZARDS: None Found SUBSTANCE NOTES: See othe VANADIUM %: 0.0000 - 0.1000 HAZARDS: MULTIPLE	GS: LT-UNK AGENCY(IES) WITH WAR No warnings found or material notes GS: LT-1 AGENCY(IES) WITH WAR German FEA - Sut Waters	NINGS: d on HPD Priority lists RC: None	NANO: No Class 3 - Severe Hazard Carcinogen Group 2 - C	ROLE: Alloy	ID: 7440-62

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NIOBIUM						ID: 7440-03-1
%: 0.0000 - 0.1000	GS: LT-UNK	RC: None		NANO: No	ROLE: Alloy	
HAZARDS:	AGENCY(IES) WITH WAI	RNINGS:				
None Found	No warnings four	nd on HPD Priority lists				
SUBSTANCE NOTES: See other	material notes					
NITROGEN						ID: 7727-37-
%: Impurity/Residual	GS: NoGS	RC: None	NANO: NO	ROLE: Impur	ity/Residual	
HAZARDS:	AGENCY(IES) WITH WAI	RNINGS:				
None Found	No warnings four	nd on HPD Priority lists				
SUBSTANCE NOTES: See other	material notes					
TIN						ID: 7440-31-
%: Impurity/Residual	gs: LT-UNK	RC: None	NANO: NO	ROLE: Impl	urity/Residual	
HAZARDS:	AGENCY(IES) WITH WAI	RNINGS:				
None Found	No warnings four	nd on HPD Priority lists				
SUBSTANCE NOTES: See other	material notes					
TITANIUM						ID: 7440-32- (
%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: NO	ROLE: Impl	urity/Residual	
HAZARDS:	AGENCY(IES) WITH WA	RNINGS:				
None Found	No warnings four	nd on HPD Priority lists				
SUBSTANCE NOTES: See other	material notes					
BORON						ID: 7440-42- 8
%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: NO	ROLE: Impl	urity/Residual	
HAZARDS:	AGENCY(IES) WITH WAI	RNINGS:				
None Found		nd on HPD Priority lists				
SUBSTANCE NOTES: See other	material notes					
	matoria notos					

CALCIUM

ID: 7439-92-1

%: Impurity/Residual	GS: LT-P1	RC: None	NANO: NO	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H261 - Ir	contact with water releases flammable gases

SUBSTANCE NOTES: See other material notes

LEAD

LEAD				ID: 7439-92-
%: Impurity/Residual	GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WA	RNINGS:		
DEVELOPMENTAL	G&L - Neurotoxio	c Chemicals	Develo	pmental Neurotoxicant
CANCER	US EPA - IRIS Ca	arcinogens	(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 6	5	Carcino	ogen
DEVELOPMENTAL	CA EPA - Prop 6	5	Develo	pmental toxicity
PBT	US EPA - Priority	PBTs (NWMP)	Priority	PBT
PBT	WA DoE - PBT		PBT	
REPRODUCTIVE	CA EPA - Prop 6	5	Reprod	luctive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 6	5	Reprod	luctive Toxicity - Male
CANCER	US NIH - Report	on Carcinogens	Reasor	nably Anticipated to be Human Carcinogen
РВТ	US EPA - Toxics	Release Inventory F	PBTs PBT	
REPRODUCTIVE	EU - SVHC Autho	orisation List	Toxic to	o reproduction - Candidate list
РВТ	OSPAR - Priority concern	OSPAR - Priority PBTs & EDs & equivalent concern		Chemical for Priority Action
PBT	OR DEQ - Priorit	y Persistent Pollutar	nts Priority	Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reprod Monographs	luctive & Developme	ental Clear E	vidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reprod Monographs	uctive & Developme	ental Clear E	vidence of Adverse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Sta	tements)	H360FI child	D - May damage fertility. May damage the unborn
DEVELOPMENTAL	EU - GHS (H-Sta	tements)	H362 -	May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Anr	nex XVII CMRs		o Reproduction Category 1 - Substances known to fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN I	list	CMR -	Carcinogen, Mutagen &/or Reproductive Toxicant

ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	МАК	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	МАК	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEVELOPMENTAL	Australia - GHS	H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES: See other material notes

%: Impurity/Residual	GS: LT-1	RC: None	NANO: No	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH	WARNINGS:			
DEVELOPMENTAL	G&L - Neuroto	oxic Chemicals	Devel	lopmental Neurotoxicant	
CANCER	US EPA - IRIS	Carcinogens	(1986) Group A - Human Carcinogen	
CANCER	IARC		Group	p 1 - Agent is Carcinogenic to humans	
CANCER	CA EPA - Prop	o 65	Carci	nogen	
CANCER	US CDC - Occ	cupational Carcinogens	Occu	pational Carcinogen	
CANCER	US NIH - Repo	US NIH - Report on Carcinogens		n to be a human Carcinogen	
РВТ	OR DEQ - Pric	OR DEQ - Priority Persistent Pollutants		Priority Persistent Pollutant - Tier 1	
ACUTE AQUATIC	EU - GHS (H-S	Statements)	H400	- Very toxic to aquatic life	
CHRON AQUATIC	EU - GHS (H-S	Statements)	H410	- Very toxic to aquatic life with long lasting effects	
MAMMALIAN	EU - GHS (H-S	Statements)	H301	- Toxic if swallowed	
MAMMALIAN	EU - GHS (H-S	Statements)	H331	- Toxic if inhaled	
ENDOCRINE	TEDX - Potent	tial Endocrine Disruptors	Poter	ntial Endocrine Disruptor	
MULTIPLE	German FEA - Waters	Substances Hazardous t	o Class	3 - Severe Hazard to Waters	
CANCER	МАК	МАК		nogen Group 1 - Substances that cause cancer in	
CANCER	Korea - GHS		Carci	nogenicity - Category 1 [H350 - May cause cancer]	
CANCER	New Zealand	- GHS	6.7A ·	- Known or presumed human carcinogens	

ID: 7440-38-2

CANCER	Japan - GHS	Carcinogenicity - Category 1A
GENE MUTATION	МАК	Germ Cell Mutagen 3a
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: See other material notes

COBALT				ID: 7440-48-4	
%: Impurity/Residual	GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARN	IINGS:			
RESPIRATORY	AOEC - Asthmager	ns	Asth	nmagen (Rs) - sensitizer-induced	
RESPIRATORY	AOEC - Asthmager	ns	Asth	nmagen (G) - generally accepted	
CANCER	IARC		Gro	up 2b - Possibly carcinogenic to humans	
CANCER	CA EPA - Prop 65		Card	cinogen	
CANCER	US NIH - Report or	n Carcinogens	Rea	sonably Anticipated to be Human Carcinogen	
SKIN SENSITIZE	EU - GHS (H-State	ments)	H31	H317 - May cause an allergic skin reaction	
RESPIRATORY	EU - GHS (H-State	ments)		4 - May cause allergy or asthma symptoms or breathing culties if inhaled	
MULTIPLE	German FEA - Sub Waters	stances Hazardous	to Clas	ss 3 - Severe Hazard to Waters	
CANCER	МАК		Caro man	cinogen Group 2 - Considered to be carcinogenic for	
RESPIRATORY	МАК	МАК		sitizing Substance Sah - Danger of airway & skin sitization	
GENE MUTATION	МАК	МАК		m Cell Mutagen 3a	
CANCER	Australia - GHS		H35	0i - May cause cancer by inhalation	
REPRODUCTIVE	Australia - GHS		H36	0F - May damage fertility	

SUBSTANCE NOTES: See other material notes

			ID: 7440-36
GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual
AGENCY(IES) WITH	I WARNINGS:		
EU - GHS (H-	EU - GHS (H-Statements)		Toxic to aquatic life with long lasting effects
МАК		Carcin man	ogen Group 2 - Considered to be carcinogenic for
	AGENCY(IES) WITH EU - GHS (H-	AGENCY(IES) WITH WARNINGS: EU - GHS (H-Statements)	AGENCY(IES) WITH WARNINGS: EU - GHS (H-Statements) H411 - MAK Carcin

SUBSTANCE NOTES: See Material Notes

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 APPLICABLE FACILITIES: All. CERTIFICATE URL:	ISSUE DATE: 2018- 09-27	EXPIRY DATE:	CERTIFIER OR LAB: -

CERTIFICATION AND COMPLIANCE NOTES: Metals as well as powder-coated metals, plated or anodized metals are inherently nonemitting sources of VOCs, as per LEED® v4.

😑 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.

No accessories are required for this product.

Section 5: General Notes

MANUFACTURER INFORMATION

MANUFACTURER: ArcelorMittal Long Products Canada Address: 2050 route des Aciéries

Contrecoeur Quebec JOL 1C0, Canada WEBSITE: www.long-canada.arcelormittal.com

KEY

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

GLO Global warming

MUL Multiple hazards

OZO Ozone depletion

NEU Neurotoxicity

MAM Mammalian/systemic/organ toxicity

PBT Persistent Bioaccumulative Toxic

Hazard Types

AQU Aquatic toxicity CAN Cancer DEV Developmental toxicity END Endocrine activity EYE Eye irritation/corrosivity GEN Gene mutation

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 (insuficient data to benchmark)

Recycled Types

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

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material Nested Method / Product Threshold Substances listed within each material per threshold indicated per product Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology Third Party Verified Verification by independent certifier approved by HPDC Preparer Third party preparer, if not self-prepared by manufacturer Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

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

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.

CONCRETE REINFORCING BAR/REBAR & MERCHANT BAR QUALITY hpdrepository.hpd-collaborative.org CONTACT NAME: Steve Gingras TITLE: Manager, Technical Services PHONE: (450) 392-3376 EMAIL: steve.gingras@arcelormittal.com

> 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

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)