Ecologic® Rustex Primer by Cloverdale Paint Inc. - Cloverdale Paint & Rodda Paint Co.

CLASSIFICATION: 09 91 00.00 Finishes: Painting

PRODUCT DESCRIPTION: Ecologic® Rustex Primer is a premium quality waterborne anti-corrosive primer for application to properly prepared ferrous and non-ferrous metals for industrial, commercial and institutional applications. This product has good corrosion resistance, re-coat tolerance, and adhesion to a wide range of substrates. It is non-flammable, and has low VOC content to meet LEED v4 Low-Emitting Materials standard. This product is listed under MPI categories #107 & #134. This HPD covers Ecologic® Rustex Primer in white. Product Code: 70323

Section 1: Summary

CONTENT INVENTORY

Inventory Reporting Format

- C Nested Materials Method
- Basic Method

Threshold Disclosed Per

Section 2 for further details.

C Material

Product

Threshold level

- 100 ppm1,000 ppm
- C Per GHS SDS
- C Per OSHA MSDS
- C Other

Residuals/Impurities

Considered
 Partially
 Considered

C Not Considered

Explanation(s) provided for Residuals/Impurities?

Basic Method / Product Threshold

Are All Substances Above the	Threshold Indicated:
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Characterized Percent Weight and Role Provided?	o	Yes	O No
Screened Using Priority Hazard Lists with Results Disclosed?	•	Yes	O No
Literative d	_		_

Identified Oracle Yes O No Name and Identifier Provided?

Number of Greenscreen BM-4/BM3 contents....... 1 Contents highest concern GreenScreen Benchmark or List translator Score...... BM-1 Nanomaterial...... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight. Therefore, this HPD qualifies for the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1). Substances not "Identified" are those considered proprietary to suppliers, and are thus "Undisclosed" on this HPD.

GLYCOL MONOBUTYL ETHER (EGBE) BM-2 | MAM | EYE | SKI | END MICA LT-UNK TRIZINC BIS(ORTHOPHOSPHATE) LT-P1 | AQU | MUL ZINC PHOSPHATE NoGS SILICA, AMORPHOUS LT-P1 | CAN ALUMINA TRIHYDRATE BM-2 | RES ZINC OXIDE BM-1 | AQU | RES | MUL UNDISCLOSED LT-UNK SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES (SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES) LT-1 | CAN | MUL AMMONIUM HYDROXIDE LT-P1 | SKI | AQU | RES | MUL SODIUM NITRITE LT-P1 | MAM | AQU | MUL | END | PHY 1,4-DIISOBUTYL-1,4-DIMETHYLBUTYNEDIOL LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED NoGS QUARTZ LT-1 | CAN CHLORITE NoGS]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CONTENT IN DESCENDING ORDER OF QUANTITY

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

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

ECOLOGIC® RUSTEX PRIMER [WATER BM-4 ACRYLIC POLYMER LT-UNK

TITANIUM DIOXIDE LT-1 | CAN | END TALC BM-1 | CAN ETHYLENE

Material (g/l): <100 Regulatory (g/l): Does the product contain exempt VOCs: No Are ultra-low VOC tints available: N/A **CERTIFICATIONS AND COMPLIANCE** See Section 3 for additional listings. VOC emissions: Building Product VOC Emission Factors - 70323

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

C Yes

PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2018-01-10 PUBLISHED DATE: 2018-01-10 EXPIRY DATE: 2021-01-10

Health Product Declaration v2.1

created via: HPDC Online Builder

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

ECOLOGIC® RUSTEX PRIMER

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1, LT-P1 or NoGS have been disclosed, based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER PRODUCT NOTES: Percent by weight of substances reported as range in order to further protect the proprietary nature of this formulation.

WATER					ID: 7732-18-5
%: 40.0000 - 45.0000	GS: BM-4	RC: None	NANO: NO	ROLE: Diluent, Flow Aid	
HAZARDS:	AGENCY(IES) WITH V	VARNINGS:			
None Found	No warnings fou	ind on HPD Priority lists			

SUBSTANCE NOTES:

ACRYLIC POLYMER					ID: Undisclosed
%: 20.0000 - 25.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Resin Binder	
HAZARDS:	AGENCY(IES) WITH WARN	INGS:			
None Found	No warnings found c	on HPD Priority lists			

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists with results disclosed.

TITANIUM DIOXIDE				ID: 13463-67-7
%: 10.0000 - 15.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Pigment
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
CANCER	US CDC - Occup	pational Carcinogens	Occupational Carci	nogen
CANCER	CA EPA - Prop 6	5	Carcinogen - specif	fic to chemical form or exposure route
CANCER	IARC		Group 2B - Possibly occupational source	y carcinogenic to humans - inhaled from es

CANCER	МАК	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List. Form-specific hazards: airborne particles of respirable size – occupational setting. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Titanium Dioxide. This HPD will be updated as appropriate when these guidelines become available. The Material Health Harmonization Task Group convened by the USGBC states that pigmentary titanium dioxide was "determined to be Benchmark 2 using the full GS (GreenScreen) method" (http://ow.ly/Z5ken).

TALC

%: 10.0000 - 15.0000	GS: BM-1	RC: None	NANO: No	ROLE: Extender
HAZARDS:	AGENCY(IES) WITH WARNINGS			
CANCER	МАК		Carcinogen Group 3B - I sufficient for classificatio	Evidence of carcinogenic effects but not n

SUBSTANCE NOTES: GreenScreen® Assessment for Talc (CAS# 14807-96-6) assigns the following GreenScreen® Benchmark Scores for Relevant Routes of Exposure: Inhalation (BM-1); Oral (BM-3DG); Dermal (BM-U).

ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE)

%: 1.0000 - 5.0000	GS: BM-2	RC: None	NANO: NO	ROLE: Flow Additive
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases		R20 - Harmful by Inha	alation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases		R21 - Harmful in Con	tact with Skin
MAMMALIAN	EU - R-phrases		R22 - Harmful if Swal	lowed
EYE IRRITATION	EU - R-phrases		R36 - Irritating to eyes	S
SKIN IRRITATION	EU - R-phrases		R38 - Irritating to skin	
SKIN IRRITATION	EU - GHS (H-Statements)		H315 - Causes skin ir	ritation
EYE IRRITATION	EU - GHS (H-Statements)		H319 - Causes seriou	is eye irritation
ENDOCRINE	TEDX - Potential Endocrine Disru	ptors	Potential Endocrine D	Disruptor

SUBSTANCE NOTES:

MICA					2001-26-2
%: 1.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Extender	
HAZARDS:	AGENCY(IES) WITH WARNING	35:			
None Found	No warnings found on	HPD Priority lists			

Ecologic Rustex Primer hpdrepository.hpd-collaborative.org ID: 14807-96-6

ID: 111-76-2

TRIZINC BIS(ORTHOPHOSPHATE)

ID: **7779-90-0**

%: 1.0000 - 5.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Pigment, Corrosion Inhibitor
HAZARDS:	AGENCY(IES) WITH WA	ARNINGS:		
ACUTE AQUATIC	EU - R-phrases			R50 - Very Toxic to Aquatic Organisms
ACUTE AQUATIC	EU - GHS (H-Sta	tements)	,	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Sta	tements)		H410 - Very toxic to aquatic life with long lasting effects
MULTIPLE	German FEA - Sr	ubstances Hazardou	us to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES:

ZINC PHOSPHATE					ID: 13847-22-8		
%: 1.0000 - 5.0000	GS: NoGS	RC: None	NANO: NO	ROLE: Anti-Corrosive Agent			
HAZARDS:	AGENCY(IES) WITH W	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings four	nd on HPD Priority lists	3				

SUBSTANCE NOTES:

SILICA, AMORPHOUS					ID: 7631-86-9
%: 0.5000 - 1.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Extender	
HAZARDS:	AGENCY(IES) WITH WARN	NINGS:			
CANCER	Japan - GHS		Carcinogenicity - Ca	ategory 1A	
SUBSTANCE NOTES:					

0.5000 - 1.0000	GS: BM-2	RC: None	NANO: NO	ROLE: Opacifying Agent
HAZARDS:	AGENCY(IES) WITH V	WARNINGS:		
RESPIRATORY	AOEC - Asthma	igens	Asthmag	en (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES:

%: 0.5000 - 1.0000	GS: BM-1 RC: None NANO: NO ROL	LE: Anti-Corrosive Component; Residual/Impurity		
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only		
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life		
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		

SUBSTANCE NOTES: May also represent Impurity of 7779-90-0.

UNDISCLOSED

%: 0.5000 - 1.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Coalescing Aid	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES (SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES)

ID: 64742-65-0

%: 0.1000 - 0.5000	GS: LT-1	RC: None NANO: No ROLE: Foam Control Agent				
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
CANCER	EU - R-phrases	R45 - May cause cancer				
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer				
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man				
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant				
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence				
CANCER	Australia - GHS	H350 - May cause cancer				

SUBSTANCE NOTES: According to Pharos CML, the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract. We are working with our supplier to confirm that this exception applies to this substance. As per supplier SDS, "This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA)."

AMMONIUM HYDROXIDE

ID: 7632-00-0

ID: 126-86-3

%: 0.1000 - 0.5000	GS: LT-P1	RC: None	NANO: No	ROLE: pH Adjustment		
HAZARDS:	AGENCY(IES) WITH WARI	AGENCY(IES) WITH WARNINGS: EU - R-phrases				
SKIN IRRITATION	EU - R-phrases			ses burns		
ACUTE AQUATIC	EU - R-phrases	EU - R-phrases		Toxic to Aquatic Organisms		
RESPIRATORY	AOEC - Asthmager	าร	Asthmagen	Asthmagen (Rs) - sensitizer-induced		
RESPIRATORY	AOEC - Asthmager	าร	Asthmagen	(Rr&Rs) - irritant-induced & sensitizer-induced		
ACUTE AQUATIC	EU - GHS (H-State	ments)	H400 - Ver	y toxic to aquatic life		
SKIN IRRITATION	EU - GHS (H-State	EU - GHS (H-Statements)		uses severe skin burns and eye damage		
MULTIPLE	German FEA - Sub	German FEA - Substances Hazardous to Waters		azard to Waters		

SUBSTANCE NOTES:

SODIUM NITRITE

%: 0.1000 - 0.5000	GS: LT-P1	RC: None	NANO: NO	ROLE: Corrosion Inhibitor	
HAZARDS:	AGENCY(IES) WITH V	VARNINGS:			
MAMMALIAN	EU - R-phrases		R25 - T	oxic if Swallowed	
ACUTE AQUATIC	EU - R-phrases		R50 - V	/ery Toxic to Aquatic Organisms	
ACUTE AQUATIC	EU - GHS (H-St	atements)	H400 -	Very toxic to aquatic life	
MAMMALIAN	EU - GHS (H-St	atements)	H301 -	H301 - Toxic if swallowed	
MULTIPLE	German FEA - S	Substances Hazardous to Wa	aters Class 3	- Severe Hazard to Waters	
ENDOCRINE	TEDX - Potentia	al Endocrine Disruptors	Potenti	al Endocrine Disruptor	
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-St	atements)	H272 -	May intensify fire; oxidiser	

SUBSTANCE NOTES:

1,4-DIISOBUTYL-1,4-DIMETHYLBUTYNEDIOL

%: 0.1000 - 0.5000	GS: LT-UNK	RC: None	NANO: No	ROLE: Surfactant	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES:

UNDISCLOSED

%: 0.1000 - 0.5000	GS: LT-UNK	RC: None	NANO: No	ROLE: Dispersant
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists with results disclosed.

UNDISCLOSED

%: 0.1000 - 0.5000	gs: NoGS	RC: None	NANO: NO	ROLE: Rheology Modifier	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists with results disclosed.

QUARTZ				id: 14808-6	30-7
%: Impurity/Residual	GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH	WARNINGS:			
CANCER	US CDC - Occi	upational Carcinogens	Occupa	tional Carcinogen	
CANCER	CA EPA - Prop	CA EPA - Prop 65		Carcinogen - specific to chemical form or exposure route	
CANCER	US NIH - Repo	US NIH - Report on Carcinogens		Known to be Human Carcinogen (respirable size - occupational setting)	
CANCER	МАК	МАК		Carcinogen Group 1 - Substances that cause cancer in man	
CANCER	IARC	IARC		 Agent is carcinogenic to humans - inhaled from tional sources 	
CANCER	New Zealand -	New Zealand - GHS		Known or presumed human carcinogens	
CANCER	Japan - GHS	Japan - GHS		Carcinogenicity - Category 1A	
CANCER	Australia - GHS	3	H350 -	H350 - May cause cancer	

SUBSTANCE NOTES: Potential impurity of raw materials (e.g. Mica). Quartz is one of several compounds with warnings restricted to respirable forms (Silica, crystalline - airborne particles of respirable size). Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Quartz/Silica. This HPD will be updated as appropriate when these guidelines become available. May also represent possible impurity present in other raw materials.

CHLORITE

ID: 1318-59-8

%: Impurity/Residual

RC: None

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NANO: NO
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ROLE: Impurity/Residual

HAZARDS: AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists		
SUBSTANCE NOTES: Chlorite Group M	linerals. Potential impurity of Talc based on information provided in supplier SDS.		

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	Building Product VOC Emission Factors - 70323				
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Cloverdale Paint Inc., Surrey, BC Canada CERTIFICATE URL:	ISSUE DATE: 2016-11- 27	EXPIRY DATE: 2018- 11-27	CERTIFIER OR LAB: Berkeley Analytical ClearChem		

CERTIFICATION AND COMPLIANCE NOTES: Report number: 881-004-02A-Nov2716. Test method: ASTM D 5116-10 (Small Chamber).

General 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

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Cloverdale Paint Inc. - Cloverdale Paint & Rodda Paint Co.

ADDRESS: 6107 N Marine Drive

CONTACT NAME: Jeff McIntyre TITLE: Business Development Manager PHONE: 206.396.7074

Portland OR 97203, USA WEBSITE: www.cloverdalepaint.com

EMAIL: jmcintyre@roddapaint.com

KEY

OSHA MSDS GHS SDS

Occupational Safety and Health Administration Material Safety Data Sheet Globally Harmonized System of Classi cation and Labeling of Chemicals Safety Data Sheet

Hazard Types

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

- GLO Global warming MAM Mammalian/systemic/organ toxicity MUL Multiple hazards NEU Neurotoxicity OZO Ozone depletion PBT Persistent Bioaccumulative Toxic
- PHY Physical Hazard (reactive)
 REP Reproductive toxicity
 RES Respiratory sensitization
 SKI Skin sensitization/irritation/corrosivity
 LAN Land Toxicity
 NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspeci ed (insu cient data to benchmark)

LT-P1 List Translator Possible Benchmark 1 LT-1 List Translator Likely Benchmark 1 LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark) NoGS Unknown (no data on List Translator Lists)

Recycled Types

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

Other Terms

Inventory Methods:

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

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.