

CLASSIFICATION: 07 14 16.00

PRODUCT DESCRIPTION: PRO-GRADE® 280 ELASTOMERIC WHITE ROOF COATING IS A PREMIUM WATER-BASED 100% ACRYLIC LATEX COATING THAT CAN BE APPLIED TO A VARIETY OF PROPERLY PREPARED SURFACES INCLUDING PREVIOUSLY COATED ROOFS, ASPHALT EMULSION, NEW OR AGED SMOOTH ASPHALT BUILT-UP ROOFING (BUR), MODIFIED BITUMEN, AGED EPDM, HYPALON® AND PVC SINGLE PLY ROOFS, METAL ROOFS AND CONCRETE ROOFS. IT'S DESIGNED TO REFLECT SOLAR RADIATION AND REDUCE ROOF SURFACE TEMPERATURE, WHICH HELPS LOWER INTERIOR TEMPERATURES AS WELL AS ENERGY COSTS. PROPERLY APPLIED, IT IS HIGHLY RESISTANT TO DISBONDING, CHALKING, MILDEW, FUNGI, DISCOLORATION AND HELPS PROTECT AND EXTEND THE ROOF'S LIFE CYCLE.

Section 1: Summary

CONTENT INVENTORY

| | | | |
|--|---|---|---|
| Threshold per material | Residuals and impurities considered in 1 of 1 materials | Based on the selected Content Inventory Threshold: | |
| <input checked="" type="radio"/> 100 ppm | <input checked="" type="radio"/> see Section 2: | Characterized..... | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| <input type="radio"/> 1,000 ppm | <input checked="" type="radio"/> see Section 5: | Are the Percent Weight and Role provided for all substances? | |
| <input type="radio"/> Per GHS SDS | Material Notes | Screened..... | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| <input type="radio"/> Per OSHA MSDS | <input checked="" type="radio"/> see Section 5: | Are all substances screened using Priority Hazard Lists with results disclosed? | |
| <input type="radio"/> Other | General Notes | Identified..... | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| | | Are all substances disclosed by Name (Specific or Generic) and Identifier? | |

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

WHITE ELASTOMERIC ROOF COATING [WATER **BM-4** 2-PROPENOIC ACID, POLYMER WITH ETHENYLBENZENE AND 2-ETHYLHEXYL 2-PROPENOATE **LT-UNK** ALUMINA TRIHYDRATE **BM-2** | RES LIMESTONE; CALCIUM CARBONATE **LT-UNK** TITANIUM DIOXIDE **LT-1** | CAN ZINC OXIDE **BM-1** | AQU | RES | MUL ENGLISH FULLERS EARTH **UNK** ETHYLENE GLYCOL **BM-1** | MAM | DEV | END 1,3-PENTANEDIOL, 2,2,4-TRIMETHYL-, MONOISOBUTYRATE **LT-UNK** | CAN BUTYL BENZYL PHTHALATE (BBP) **LT-1** | AQU | DEV | REP | CAN | END | MUL MIXTURE- 5-CHLORO-2-METHYL-2,3-DIHYDROISOTHIAZOL-3-ONE [26172-55-4] AND 2-METHYL-2,3-DIHYDROISOTHIAZOL-3-ONE [2682-20-4] MIXTURE IN RATIO 3:1 (SH) **LT-UNK** | SKI QUARTZ **LT-1** | CAN]

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:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0 Regulatory (g/l):
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

| | | | |
|--|-----------------|----------------------------------|--|
| <input checked="" type="radio"/> Self-Published* | VERIFIER: | SCREENING DATE: January 22, 2017 | EXPIRY DATE*: January 22, 2020 |
| <input type="radio"/> Third Party Verified | VERIFICATION #: | RELEASE DATE: January 22, 2017 | * or within 3 months of significant change in product contents |

*See HPDC website for details



Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

WHITE ELASTOMERIC ROOF COATING %: 100.0000 - 100.0000 HPD URL:

Inventory Threshold: 100 ppm

Residuals Considered: Yes

Material Notes:

WATER

ID: 7732-18-5

%: 30.0000 - 40.0000

GS: BM-4

RC: None

NANO: NO

ROLE: Solvent

HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

2-PROPENOIC ACID, POLYMER WITH ETHENYLBENZENE AND 2-ETHYLHEXYL 2-PROPENOATE

ID: 25085-19-2

%: 25.0000 - 35.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Waterproofing polymer/flexibility

HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ALUMINA TRIHYDRATE

ID: 21645-51-2

%: 5.0000 - 10.0000

GS: BM-2

RC: None

NANO: NO

ROLE: Filler/film strengthener

HAZARDS:

RESPIRATORY

AOEC - Asthmagens

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

SUBSTANCE NOTES:

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

%: 5.0000 - 10.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Filler/film strengthener

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: 13463-67-7

%: 5.0000 - 10.0000

GS: LT-1

RC: None

NANO: NO

ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

CANCER

MAK

Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: Not present in a respirable form.

ZINC OXIDE

ID: 1314-13-2

%: 1.0000 - 5.0000

GS: BM-1

RC: None

NANO: NO

ROLE: Mildew/fungal resistance

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:

ENGLISH FULLERS EARTH

ID: 8031-18-3

%: 0.5000 - 1.0000

GS: UNK

RC: None

NANO: NO

ROLE: Thixotrope

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ETHYLENE GLYCOL

ID: 107-21-1

%: 0.5000 - 1.0000

GS: BM-1

RC: None

NANO: NO

ROLE: Coalescing agent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN

EU - R-phrases

R22 - Harmful if Swallowed

DEVELOPMENTAL

CA EPA - Prop 65

Developmental toxicity

DEVELOPMENTAL

US NIH - Reproductive & Developmental Monographs

Clear Evidence of Adverse Effects - Developmental Toxicity

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES:

1,3-PENTANEDIOL, 2,2,4-TRIMETHYL-, MONOISOBUTYRATE

ID: 25265-77-4

%: 0.2000 - 1.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: UV Stability

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES:

BUTYL BENZYL PHTHALATE (BBP)

ID: 85-68-7

%: 0.1000 - 0.9000

GS: LT-1

RC: None

NANO: NO

ROLE: Plasticizer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

DEVELOPMENTAL

EU - R-phrases

R61 - May cause harm to the unborn child

REPRODUCTIVE

EU - R-phrases

R62 - Possible risk of impaired fertility

CANCER

US EPA - IRIS Carcinogens

(1986) Group C - Possible human Carcinogen

| | | |
|-----------------|--|--|
| DEVELOPMENTAL | CA EPA - Prop 65 | Developmental toxicity |
| ENDOCRINE | EU - Priority Endocrine Disrupters | Category 1 - In vivo evidence of Endocrine Disruption Activity |
| REPRODUCTIVE | EU - SVHC Authorisation List | Toxic to reproduction - Banned unless Authorised |
| ENDOCRINE | OSPAR - Priority PBTs & EDs & equivalent concern | Endocrine Disruptor - Substance of Possible Concern |
| ENDOCRINE | OSPAR - Priority PBTs & EDs & equivalent concern | Endocrine Disruptor - Chemical for Priority Action |
| DEVELOPMENTAL | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Developmental Toxicity |
| REPRODUCTIVE | US NIH - Reproductive & Developmental Monographs | Some Evidence of Adverse Effects - Reproductive Toxicity |
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | TSCA Work Plan chemical - Action Plan in development |
| ACUTE AQUATIC | EU - GHS (H-Statements) | H400 - Very toxic to aquatic life |
| CHRON AQUATIC | EU - GHS (H-Statements) | H410 - Very toxic to aquatic life with long lasting effects |
| DEVELOPMENTAL | EU - GHS (H-Statements) | H360Df - May damage the unborn child. Suspected of damaging fertility |
| REPRODUCTIVE | EU - REACH Annex XVII CMRs | Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans |
| MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters |
| REPRODUCTIVE | US EPA - PPT Chemical Action Plans | Reproductive effects |
| REPRODUCTIVE | EU - Annex VI CMRs | Reproductive Toxicity - Category 1B |

SUBSTANCE NOTES:

MIXTURE- 5-CHLORO-2-METHYL-2,3-DIHYDROISOTHIAZOL-3-ONE [26172-55-4] AND 2-METHYL-2,3-DIHYDROISOTHIAZOL-3-ONE [2682-20-4] MIXTURE IN RATIO 3:1 (SH) ID:

%: 0.0010 - 0.0100 GS: LT-UNK RC: None NANO: NO ROLE: Preservative

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN SENSITIZE MAK Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

QUARTZ

ID: 14808-60-7

%: Impurity/Residual

GS: LT-1

RC: None

NANO: NO

ROLE: Impurity/Residual

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 1: Agent is carcinogenic to humans - inhaled from occupational sources

CANCER

US NIH - Report on Carcinogens

Known to be Human Carcinogen (respirable size - occupational setting)

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

SUBSTANCE NOTES: Not present in respirable form.



Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.



Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.



Section 5: General Notes



MANUFACTURER INFORMATION

MANUFACTURER: Henry Company

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KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

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

Hazard Types

AQU Aquatic toxicity

GLO Global warming

PHY Physical Hazard (reactive)

CAN Cancer

MAM Mammalian/systemic/organ toxicity

REP Reproductive toxicity

DEV Developmental toxicity

MUL Multiple hazards

RES 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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

LT-P1 List Translator Possible Benchmark 1

BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2 Benchmark 2 (use but search for safer substitutes)

LT-1 List Translator Likely Benchmark 1

BM-1 Benchmark 1 (avoid - chemical of high concern)

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

BM-U Benchmark Unspecified (insufficient data to benchmark)

UNK 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

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.