

CLASSIFICATION: 09 96 00 High Performance Coatings

PRODUCT DESCRIPTION: Low odor, fast dry, low VOC, waterborne polyurethane coating for interior wall and floor applications. Provides enhanced abrasion resistance, stain resistance and color stability. This user friendly product has easy application and clean-up characteristics and may be applied over a properly prepared aged coating (test patch is recommended for compatibility). Contact your Tnemec representative for more details.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
 Basic Method

Threshold Disclosed Per

- Material
 Product

Threshold level

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

Residuals/Impurities

- Considered
 Partially Considered
 Not Considered

Explanation(s) provided
for Residuals/Impurities?

- Yes No

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

SERIES 297 ENVIRO-GLAZE [WATER (WATER) BM-4 ACRYLATE COPOLYMER UNK HEXAMETHYLENE DIISOCYANATE (HDI) POLYMER LT-P1 POLYISOCYANATE PREPOLYMER UNK ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE) BM-2 | SKI | EYE | END POLYETHYLENE WAX - SYNTHETIC WAX LT-UNK AROMATIC PETROLEUM DISTILLATE LT-1 | MAM | GEN | CAN | MUL | END 1,2,4-TRIMETHYLBENZENE BM-2 | AQU | SKI | EYE | MUL XYLENE BM-1 | SKI | END | MUL | REP TITANIUM DIOXIDE LT-1 | CAN | END SILICA, AMORPHOUS LT-P1 | CAN QUARTZ (CRYSTALLINE SILICA) LT-1 | CAN YELLOW IRON OXIDE LT-UNK IRON OXIDE FUME BM-2 | CAN ALUMINUM OXIDES LT-P1 | RES PIGMENT YELLOW 74 LT-UNK PIGMENT RED 112 LT-UNK COPPER COMPOUNDS BM-3 PROPRIETARY LT-P1 | MUL PROPRIETARY LT-P1 | PBT | MUL]

Number of Greenscreen BM-4/BM3 contents ... 2

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Material disclosure is per GHS SDS requirements. Residuals and impurities are reported when disclosed on supplier SDS and they exceed the GHS reporting threshold. There are substances used in this product for which the CAS numbers are unknown. The suppliers of these substances are holding these as trade secrets.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 60 Regulatory (g/l): 96

Does the product contain exempt VOCs: No

Are ultra-low VOC tints available: Yes

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH/EHLB Standard Method v1.1 (2010) Emissions Testing

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-05-17

PUBLISHED DATE: 2018-05-23

EXPIRY DATE: 2021-05-17



Section 2: Content in Descending Order of Quantity

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

SERIES 297 ENVIRO-GLAZE

PRODUCT THRESHOLD: Per GHS SDS

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are reported when disclosed on supplier SDS and they exceed the GHS reporting threshold.

OTHER PRODUCT NOTES: This HPD covers the product as applied without thinning.

WATER (WATER)

ID: 7732-18-5

%: 20.0000 - 40.0000	GS: BM-4	RC: None	NANO: No	ROLE: Solvent
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

ACRYLATE COPOLYMER

ID: Undisclosed

%: 10.0000 - 30.0000	GS: UNK	RC: None	NANO: No	ROLE: Binder
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The exact percentage (concentration) of composition and chemical identity have been withheld as a trade secret. The CAS Number for this substance was not provided by our supplier.

HEXAMETHYLENE DIISOCYANATE (HDI) POLYMER

ID: 28182-81-2

%: 10.0000 - 30.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Binder
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

POLYISOCYANATE PREPOLYMERID: **Undisclosed**

%: 1.0000 - 10.0000	GS: UNK	RC: None	NANO: No	ROLE: Binder
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The exact percentage (concentration) of composition and chemical identity have been withheld as a trade secret.

ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE)ID: **111-76-2**

%: 1.0000 - 10.0000	GS: BM-2	RC: None	NANO: No	ROLE: Solvent
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

POLYETHYLENE WAX - SYNTHETIC WAXID: **9002-88-4**

%: 1.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

AROMATIC PETROLEUM DISTILLATEID: **64742-95-6**

%: 1.0000 - 10.0000	GS: LT-1	RC: None	NANO: No	ROLE: Solvent
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN

EU - GHS (H-Statements)

H304 - May be fatal if swallowed and enters airways

GENE MUTATION

EU - GHS (H-Statements)

H340 - May cause genetic defects

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

GENE MUTATION

EU - REACH Annex XVII CMRs

Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man

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
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
GENE MUTATION	Australia - GHS	H340 - May cause genetic defects
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

1,2,4-TRIMETHYLBENZENE

ID: 95-63-6

#: **0.1000 - 1.0000** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

XYLENE

ID: 1330-20-7

#: **0.1000 - 1.0000** GS: **BM-1** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

TITANIUM DIOXIDE

ID: 13463-67-7

#: **0.0000 - 25.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

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

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret. The range given is greater than 20% to encompass the variance in level caused by different color offerings for this product.

SILICA, AMORPHOUS

ID: 7631-86-9

#: 0.0000 - 10.0000 GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER	Japan - GHS	Carcinogenicity - Category 1A
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SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

QUARTZ (CRYSTALLINE SILICA)

ID: 14808-60-7

#: 0.0000 - 25.0000 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 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
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Australia - GHS	H350 - May cause cancer
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret. The range given is greater than 20% to encompass the variance in level caused by different color offerings for this product.

YELLOW IRON OXIDE

ID: 51274-00-1

%: 0.0000 - 20.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Pigment
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

IRON OXIDE FUME

ID: 1309-37-1

%: 0.0000 - 20.0000	GS: BM-2	RC: None	NANO: No	ROLE: Pigment
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

ALUMINUM OXIDES

ID: 1344-28-1

%: 0.0000 - 20.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Pigment
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

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

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

PIGMENT YELLOW 74

ID: 6358-31-2

%: 0.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Pigment
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

PIGMENT RED 112

ID: 6535-46-2

%: 0.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Pigment
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

COPPER COMPOUNDS

ID: 147-14-8

#: **0.0000 - 10.0000** GS: **BM-3** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The exact percentage (concentration) of composition has been withheld as a trade secret.

PROPRIETARY

ID: **Undisclosed**

#: **0.0000 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Additive**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: The exact percentage (concentration) of composition and chemical identity have been withheld as a trade secret.

PROPRIETARY

ID: **Undisclosed**

#: **0.0000 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Additive**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PBT

EC - CEPA DSL

Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: The exact percentage (concentration) of composition and chemical identity have been withheld as a trade secret.

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

CDPH/EHLB Standard Method v1.1 (2010) Emissions Testing

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2014-**

EXPIRY DATE:

CERTIFIER OR LAB: **UL**

APPLICABLE FACILITIES: **Approved for Classroom and Private Office Scenario**

07-17

Environment

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **UL Environment Report # 17960-04**

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.

WATER

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Used for thinning to adjust application viscosity. Usage level is 15-20% by volume. Water has a Greenscreen score of BM-4.

Section 5: General Notes

This HPD covers the product as applied without thinning.



MANUFACTURER INFORMATION

MANUFACTURER: **Tnemec Company, Inc.**
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Kansas City MO 64120, United States
WEBSITE: **www.tnemec.com**

CONTACT NAME: **Laura Burton**
TITLE: **Group Leader - Product Development**
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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)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
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 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.