

CLASSIFICATION: Adhesive/Sealant

PRODUCT DESCRIPTION: Structural silicone glazing adhesive

Section 1: Summary

Nested 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

Residuals/Impurities
Considered in 1 of 1 Materials

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

SSG4607B [3-(TRIMETHOXYSILYL)PROPYLAMINE (3-(TRIMETHOXYSILYL)PROPYLAMINE) **LT-UNK** ((3-(TRIMETHOXYSILYL)PROPOXY)METHYL)OXIRANE (((3-(TRIMETHOXYSILYL)PROPOXY)METHYL)OXIRANE) **LT-P1** | MUL
TITANIUM DIOXIDE (TITANIUM DIOXIDE) **LT-1** | CAN | END
OCTAMETHYLCYCLOTETRASILOXANE (D4) **BM-1** | PBT | MUL | REP | END
CARBON BLACK **LT-1** | CAN **DIBUTYLTIN DILAUATE (DIBUTYLTIN DILAUATE)** **LT-1** | PBT | GEN | REP | MAM | MUL | END]

Number of Greenscreen BM-4/BM3 contents ... 0

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): 225 Regulatory (g/l):

Does the product contain exempt VOCs: No

Are ultra-low VOC tints available: No

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: ETL Environmental VOC / VOC + certification

VOC content: ETL Environmental VOC / VOC + certification

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:
VERIFICATION #:

SCREENING DATE: 2018-02-07

PUBLISHED DATE: 2018-07-19

EXPIRY DATE: 2021-02-07



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.hpdc-collaborative.org/hpd-2-1-standard

SSG4607B

%: 0.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities noted in inventory

OTHER MATERIAL NOTES:

3-(TRIMETHOXYSILYL)PROPYLAMINE (3-(TRIMETHOXYSILYL)PROPYLAMINE)

ID: 13822-56-5

%: 10.0000 - 20.0000

GS: LT-UNK

RC: UNK

NANO: No

ROLE: Active Ingredient

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: N/A

((3-(TRIMETHOXYSILYL)PROPOXY)METHYL)OXIRANE (((3-(TRIMETHOXYSILYL)PROPOXY)METHYL)OXIRANE)

ID: 2530-83-8

%: 5.0000 - 10.0000

GS: LT-P1

RC: UNK

NANO: No

ROLE: Active Ingredient

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: N/A

TITANIUM DIOXIDE (TITANIUM DIOXIDE)

ID: 13463-67-7

%: 1.0000 - 5.0000

GS: LT-1

RC: UNK

NANO: No

ROLE: Classification Exclusion

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

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

SUBSTANCE NOTES: N/A

OCTAMETHYLCYCLOTETRASIOXANE (D4)

ID: 556-67-2

#: 0.1000 - 1.0000 GS: BM-1 RC: UNK NANO: No ROLE: Impurity

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|-----------------|---|--|
| PBT | EU - ESIS PBT | Under PBT evaluation |
| PBT | OR DEQ - Priority Persistent Pollutants | Priority Persistent Pollutant - Tier 1 |
| PBT | EC - CEPA DSL | Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms) |
| PBT | EC - CEPA DSL | Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans |
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | TSCA Work Plan chemical - Action Plan in development |
| REPRODUCTIVE | EU - GHS (H-Statements) | H361f - Suspected of damaging fertility |
| MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| ENDOCRINE | ChemSec - SIN List | Endocrine Disruption |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters |
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | TSCA Work Plan chemical - ongoing chemical (risk) assessment |
| ENDOCRINE | EU - Priority Endocrine Disruptors | Category 1 - In vivo evidence of Endocrine Disruption Activity |

SUBSTANCE NOTES: N/A

CARBON BLACK

ID: 1333-86-4

#: 0.1000 - 1.0000 GS: LT-1 RC: UNK NANO: No ROLE: Classification Exclusion

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

SUBSTANCE NOTES: N/A

DIBUTYLTIN DILAURATE (DIBUTYLTIN DILAURATE)

ID: 77-58-7

#: **0.1000 - 0.3000**

GS: **LT-1**

RC: **UNK**

NANO: **No**

ROLE: **Active Ingredient**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PBT

OSPAR - Priority PBTs & EDs & equivalent concern

PBT - Chemical for Priority Action

GENE MUTATION

EU - GHS (H-Statements)

H341 - Suspected of causing genetic defects

REPRODUCTIVE

EU - GHS (H-Statements)

H360FD - May damage fertility. May damage the unborn child

ORGAN TOXICANT

EU - GHS (H-Statements)

H372 - Causes damage to organs through prolonged or repeated exposure

MULTIPLE

ChemSec - SIN List

CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

ENDOCRINE

ChemSec - SIN List

Endocrine Disruption

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 3 - Severe Hazard to Waters

REPRODUCTIVE

Japan - GHS

Toxic to reproduction - Category 1B

REPRODUCTIVE

EU - Annex VI CMRs

Reproductive Toxicity - Category 1B

SUBSTANCE NOTES: N/A

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

ETL Environmental VOC / VOC + certification

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: **intertek**

APPLICABLE FACILITIES: **Waterford, New York**

01-15

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

VOC CONTENT

ETL Environmental VOC / VOC + certification

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: **Intertek**

APPLICABLE FACILITIES: **Waterford, New York**

01-15

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

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.

SSG4600A

HPD URL: <http://hpdcollaborative.org/>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

N/A

Section 5: General Notes

GE SSG4600 UltraGlaze* is a high strength, 2-component silicone elastomeric adhesive/sealant for a wide variety of structural silicone glazing applications, specifically in the fabrication and shop glazing of curtainwall systems. SSG4600 provides fast adhesion and strength build; curing quickly when mixed, to a very high strength, tear-resistant durable silicone rubber.



MANUFACTURER INFORMATION

MANUFACTURER: **Momentive Performance Materials**
ADDRESS: **260 HUDSON RIVER ROAD**
Waterford New York 12188, United States
WEBSITE: **www.momentive.com**

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TITLE: **Senior Scientist**
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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.