

CLASSIFICATION: Adhesive

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

SSG4400B | ORGANOFUNCTIONAL SILANE NoGS TETRA-N-PROPYL-SILICATE NoGS CARBON BLACK (CARBON BLACK) LT-1 | CAN DI-N-BUTYLTIN OXIDE (DI-N-BUTYLTIN OXIDE) LT-1 | PBT | MUL | CAN | DEL | REP DI(2-ETHYLHEXYL)PHTHALATE (DEHP) (PRIMARY CASRN) (DI(2-ETHYLHEXYL)PHTHALATE (DEHP) (PRIMARY CASRN)) LT-1 | CAN | DEL | REP | END | MUL OCTAMETHYLCYCLOTETRASILOXANE (D4) BM-1 | PBT | MUL | REP | 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: 2018-02-01

PUBLISHED DATE: 2018-07-17

EXPIRY DATE: 2021-02-01



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

SSG4400B

%: 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:

ORGANOFUNCTIONAL SILANE

ID: **Undisclosed**

%: 10.0000 - 20.0000

GS: **NoGS**

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**

TETRA-N-PROPYL-SILICATE

ID: **682-01-9**

%: 10.0000 - 20.0000

GS: **NoGS**

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**

CARBON BLACK (CARBON BLACK)

ID: **1333-86-4**

%: 5.0000 - 10.0000

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

DI-N-BUTYLTIN OXIDE (DI-N-BUTYLTIN OXIDE)

ID: 818-08-6

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
%: 0.3000 - 1.0000	GS: LT-1	RC: UNK	NANO: No	ROLE: Active Ingredient
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters		
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels		
DEVELOPMENTAL	MAK	Pregnancy Risk Group B		
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B		

SUBSTANCE NOTES: N/A

DI(2-ETHYLHEXYL)PHTHALATE (DEHP) (PRIMARY CASRN) (DI(2-ETHYLHEXYL)PHTHALATE (DEHP) (PRIMARY CASRN))

ID: 117-81-7

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
%: 0.3000 - 1.0000	GS: LT-1	RC: UNK	NANO: No	ROLE: Active Ingredient
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen		
CANCER	IARC	Group 2b - Possibly carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen		
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity		
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male		
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen		
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen		
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Banned unless Authorised		
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	Clear 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		

REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
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
REPRODUCTIVE	US EPA - PPT Chemical Action Plans	Reproductive effects
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
ENDOCRINE	EU - SVHC Authorisation List	Equivalent Concern - Candidate List
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 1B
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
REPRODUCTIVE	Malaysia - GHS	H360Fd - May damage fertility. Suspected of damaging the unborn child
CANCER	Australia - GHS	H350 - May cause cancer
REPRODUCTIVE	Australia - GHS	H360Fd - May damage fertility. Suspected of damaging the unborn child
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity

SUBSTANCE NOTES: **N/A**

OCTAMETHYLCYCLOTETRAILOXANE (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**

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: **2018-**

CERTIFIER OR LAB: **intertek**

APPLICABLE FACILITIES: **Waterford, New York**

01-15

08-31

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

VOC CONTENT

ETL Environmental VOC / VOC+ certification

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE: **2018-**

CERTIFIER OR LAB: **intertek**

APPLICABLE FACILITIES: **Waterford, New York**

01-15

08-31

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.

SSG4400A

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

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

N/A

Section 5: General Notes

GE SSG4400 UltraGlaze* is a high modulus neutral curing structural silicone elastomeric adhesive for use in shop, factory and field glazing of curtainwall panels. SSG4400 is a two-component product (part A + part B) that upon mixing, yields rapid and thorough deep-section cure, fast durometer and strength build and quick curing to high strength durable silicone rubber.



MANUFACTURER INFORMATION

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

CONTACT NAME: **Reuben Correia**
TITLE: **Senior Scientist**
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EMAIL: **reuben.correia@momentive.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

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.