ASJ Max Fiberglas™ Pipe Insulation with SSL II® (SSL I®) closure system by Owens Corning

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 22 07 19 Plumbing Piping Insulation / 23 07 19 HVAC Piping Insulation

PRODUCT DESCRIPTION: Owens Corning® SSL II® with ASJ Max Fiberglas™ Pipe Insulation is molded of heavy density resin bonded inorganic glass fibers that come in one-piece, 36" (914mm) long, hinged sections. The insulation is tailored in different diameters to fit for different pipe applications.

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 5 Materials

Explanation(s) provided for Residuals/Impurities?

- (•) Yes ( ) No

All Substances Above the Threshold Indicated Are:

Characterized ( ) Yes Ex/SC (•) Yes ( ) No

% weight and role provided for all substances.

Screened ( ) Yes Ex/SC ( ) Yes (•) No

One or more substances not screened using Priority Hazard Lists with results disclosed and/ or one or more Special Condition did not follow guidance.

Identified ( ) Yes Ex/SC ( ) Yes (•) No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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

NO-WRAP FIBERGLAS™ PIPE INSULATION [FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT LT-UNK UREA PHENOL FORMALDEHYDE (UREA PHENOL FORMALDEHYDE (CURED PUF RESIN)) LT-UNK SODIUM HYDROXIDE LT-P1 | SKI | PHY SODIUM SULFATE NoGS RESIDUAL OILS, PETROLEUM, HYDROTREATED LT-1 | PBT | CAN | MUL (3-AMINOPROPYL)TRIETHOXYSILANE LT-UNK | SKI SODIUM LIGNOSULFONATE LT-UNK] FACER [CELLULOSE, MICROCRYSTALLINE NoGS CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK POLYPROPYLENE LT-UNK ANTIMONY TRIOXIDE BM-1 | CAN | MUL UNS A01001 ALUMINUM ALLOY NoGS UNKNOWN Not Screened UNKNOWN ADHESIVE Not Screened] BUTT STRIP [UNKNOWN Not Screened] HOT MELT ADHESIVE [UNDISCLOSED NoGS] SSL II (INCLUDING SSL I) CLOSURE TAPE [UNKNOWN Not Screened]

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:

To the best of our knowledge, all chemicals presented or articles (per GHS SDS) at ≥ 100 ppm or per GHS SDS levels on the materials of the final product have been considered and disclosed.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: N/A

Recycled content: SCS Recycled Content Certification - Recycling Programs

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- ○ Yes
- ◉ No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2019-07-11
PUBLISHED DATE: 2019-08-16
EXPIRY DATE: 2022-07-11

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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

NO-WRAP FIBERGLAS™ PIPE INSULATION

%: 80.00 - 93.00

PRODUCT THRESHOLD: Per GHS SDS

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, all chemicals presented at ≥ 100 ppm on the final product have been considered and disclosed. However, minerals used in manufacturing of glass fiber, might contain trace level of impurities.

OTHER MATERIAL NOTES:

FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 75.00 - 85.00 GS: LT-UNK RC: Both NANO: No ROLE: Thermal/Acoustic Insulation

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Owens Corning instituted internal systems to assure continuous production of acceptable glasses based on state-ofthe-art understanding of biosolubility. As a result of those steps, all the fiberglass and mineral wool insulations we sell, anywhere in the world, are continuously evaluated to assure that they are biosoluble, fulfilling the Note Q condition of the European Commission Directive 97/69/EC, and therefore do not present a health risk.

UREA PHENOL FORMALDEHYDE (UREA PHENOL FORMALDEHYDE (CURED PUF RESIN))

ID: 25104-55-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 4.00 - 8.00 GS: LT-UNK RC: None NANO: No ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The cured binder is the main component of the binder that holds fiberglass together and protects the glass surface

SODIUM HYDROXIDE

ID: 1310-73-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: **0.10 - 0.50** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Processing Aid**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
PHYSICAL HAZARD (REACTIVE)	GHS - Korea	H290 - May be corrosive to metals

SUBSTANCE NOTES: Processing Aid

SODIUM SULFATE

ID: **7727-73-3**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **0.10 - 0.50** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Catalyst**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The chemical that helps speed up the binder curing reaction.

RESIDUAL OILS, PETROLEUM, HYDROTREATED

ID: **64742-57-0**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **0.10 - 0.30** GS: **LT-1** RC: **None** NANO: **No** ROLE: **De-Dusting Agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
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	GHS - Australia	H350 - May cause cancer

SUBSTANCE NOTES: The de-dusting agent that is used to reduce the dust.

(3-AMINOPROPYL)TRIETHOXYSILANE

ID: **919-30-2**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **0.00 - 0.03** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Coupling Agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage

SUBSTANCE NOTES: Coupling agent provides a chemical bond between inorganic fiberglas and organic binder.

SODIUM LIGNOSULFONATE

ID: 8061-51-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **0.00 - 0.02** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **De-dusting Agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The de-dusting agent that is used to reduce the dust.

FACER

%: 6.00 - 15.00

PRODUCT THRESHOLD: Per GHS SDS RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, the final product is classified as an Article and is not hazardous nor does it contain hazardous ingredients over trace amounts as defined under 29 CFR 1910.1200. However, minerals used in manufacturing of glass fiber, might contain trace level of impurities.

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

CELLULOSE, MICROCRYSTALLINE

ID: 9004-34-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **1.00 - 10.00** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Facer reinforcement**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Component of the facer to provide the durability and flexibility.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **1.00 - 10.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Facer reinforcement**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The continuous filament glass fiber used in the product. It can not be inhaled into the lower lung and have never been associated with any chronic lung disease.

POLYPROPYLENE

ID: 9003-07-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **1.00 - 5.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Face reinforcement**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Component of the facer to provide the durability and flexibility.

ANTIMONY TRIOXIDE

ID: 1309-64-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **1.00 - 5.00** GS: **BM-1** RC: **None** NANO: **No** ROLE: **Flame Retardant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	GHS - Japan	Carcinogenicity - Category 1B

SUBSTANCE NOTES: The fire retardant is added to the facer to meet the required fire codes. It is incorporated into the matrix and shall not be released under normal use conditions.

UNS A01001 ALUMINUM ALLOY

ID: Not registered

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **1.00 - 5.00** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Facer shield**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The component is aluminum foil. It is one of the components of the closure tape, and it is analogue to the household aluminum foil that is non-hazardous. Therefore, it shall not considered to be associated with all hazardous warning associated with aluminum metal.

UNKNOWN

ID: **Unknown**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **0.10 - 1.00** GS: **Not Screened** RC: **None** NANO: **No** ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES: The coating is a mixture and specific chemical components are not known in this case.
The facer is a manufactured article as defined in the OSHA Hazard Communication Standard. During normal use no exposure to the hazardous ingredients occurs.

UNKNOWN ADHESIVE

ID: **Unknown**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **0.10 - 1.00** GS: **Not Screened** RC: **None** NANO: **No** ROLE: **Adhesive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES: Part of the facer adhesive chemistry without knowing the specific chemistry. It is incorporated into the final product and shall not be released under normal use conditions.
The facer is a manufactured article as defined in the OSHA Hazard Communication Standard. During normal use no exposure to the hazardous ingredients occurs.

BUTT STRIP

%: 0.60 - 4.70

PRODUCT THRESHOLD: Per GHS SDS RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, the final product is classified as an Article and is not hazardous nor does it contain hazardous ingredients over trace amounts as defined under 29 CFR 1910.1200. However, minerals used in manufacturing of glass fiber, might contain trace level of impurities.

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

UNKNOWN

ID: **Unknown**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **0.10 - 5.00** GS: **Not Screened** RC: **None** NANO: **No** ROLE: **Butt Strip closure tape**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES: There are no chemical ingredients listed in the SDS.
This product is classified as an Article and is not hazardous nor does it contain hazardous ingredients over trace amounts as defined under 29 CFR 1910.1200.

HOT MELT ADHESIVE

%: 0.50 - 1.00

PRODUCT THRESHOLD: Per GHS SDS RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, all chemicals presented at ≥ 100 ppm on the final product have been considered and disclosed. However, minerals used in manufacturing of glass fiber, might contain trace level of impurities.

OTHER MATERIAL NOTES: The adhesive that is used to help attach the facer to the pipe insulation. All substances in this material are below the reportable threshold.All substances in this material are below the reportable threshold.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **1.00 - 1.50** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Adhesive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The adhesive chemistry that is applied to get the facer stick to the insulation pipe.

SSL II (INCLUDING SSL I) CLOSURE TAPE

%: 0.10 - 1.10

PRODUCT THRESHOLD: Per GHS SDS RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, the final product is classified as an Article and is not hazardous nor does it contain hazardous ingredients over trace amounts as defined under 29 CFR 1910.1200. However, minerals used in manufacturing of glass fiber, might contain trace level of impurities.

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

UNKNOWN ID: **Unknown**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **0.10 - 2.00** GS: **Not Screened** RC: **None** NANO: **No** ROLE: **SSL II (SSL I) closure tape**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES: There are no chemical ingredients listed in the SDS.
This product is classified as an Article and is not hazardous nor does it contain hazardous ingredients over trace amounts as defined under 29 CFR 1910.1200.

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 — **N/A**

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: N/A
CERTIFICATE URL:

ISSUE DATE: 2019-08-16

EXPIRY DATE:

CERTIFIER OR LAB: N/A

CERTIFICATION AND COMPLIANCE NOTES:

RECYCLED CONTENT — **SCS Recycled Content Certification - Recycling Programs**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Newark, OH
CERTIFICATE URL: https://dcpd6wotaa0mb.cloudfront.net/mdms/dms/Sustainability/10021333/Owens_2019_SCS-MC-02066_s.pdf?v=1554375514000

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2019-04-01	2020-03-31	SCS Global Services

CERTIFICATION AND COMPLIANCE NOTES: SCS RECYCLED CONTENT CERTIFIED Conforms to the SCS Recycled Content Standard V7-0 for an Average 53% with Minimum 22% PostConsumer and Balance 31% Pre-Consumer Recycled Glass Content. Material quantification and massbalance calculations completed on a dry -weight basis. (Plant wide weighted average).

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

Pharos Chemical and Materials Library (through HPD Builder) was used to screen all chemicals used in making the product.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Owens Corning**
ADDRESS: **1 Owens Corning Pkwy**
Toledo Ohio 43659, United States
WEBSITE: **www.owenscorning.com**

CONTACT NAME: **Jiafan Wang**
TITLE: **Environmental Toxicologist**
PHONE: **800-GET TECH**
EMAIL: **sustainability@owenscorning.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
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 Unspecified (insuficient 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 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.