

**CLASSIFICATION:** SBS Modified Bitumen Roofing Membrane

**PRODUCT DESCRIPTION:** For building owners selecting environmentally responsible roofing materials, Siplast offers the innovative Paradiene 30 FR Eco-Activ® Depolluting Roof Membrane. Paradiene 30 FR Eco-Activ is surfaced with Noxite® Depolluting Granules.

## 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

*All Substances Above the Threshold Indicated Are:*

**Characterized**  Yes Ex/SC  Yes  No  
*% weight and role provided for all substances except SC substances characterized according to SC guidance.*

**Screened**  Yes Ex/SC  Yes  No

*All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.*

**Identified**  Yes Ex/SC  Yes  No

*All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC 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**

**PARADIENE 30 FR ECO-ACTIV® ROOF MEMBRANE [ SC:NOXITE GRANULES Not Screened ASPHALT / BITUMENS LT-1 ] | CAN CALCIUM BORATE (PRIMARY CASRN IS 12007-56-6) LT-P1 | REP QUARTZ LT-1 | CAN LIMESTONE, CALCIUM CARBONATE LT-UNK STYRENE BUTADIENE RUBBER (SBR) LT-UNK HYDROCARBON OILS, PROCESS BLENDS NoGS CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK ]**

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

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

Nanomaterial ... No

#### INVENTORY AND SCREENING NOTES:

Special conditions applied: GeologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

No residuals or impurities are expected to be present in the product at or above the reporting threshold.

### 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

### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:  
VERIFICATION #:

SCREENING DATE: 2019-12-06

PUBLISHED DATE: 2019-12-06

EXPIRY DATE: 2022-12-06



## 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](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

### PARADIENE 30 FR ECO-ACTIV® ROOF MEMBRANE

%: 100.00 - 100.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are expected to be present in the product at or above the reporting threshold.

OTHER MATERIAL NOTES: SBS modified bitumen asphalt roofing membrane.

### SC:NOXITE GRANULES

ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-12-06

%: 34.00 - 38.00

GS: Not Screened

RC: None

NANO: No

ROLE: UV Blocker and pollutants reducer.

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCGeoMats/2018-02-23

Origin: France

Typical Composition: This disclosure does not provide typical composition.

Potential presence of toxic metals: This disclosure does not provide information on the potential presence of toxic materials.

Presence of Radioactive Elements: This disclosure does not provide radioactive elements which may be found in certain geological materials.

The material used as the surfacing component in Paradiene 30 FR Eco-Activ® roofing and waterproofing membrane.

The material also used to reduce concentrations of airborne pollutants such as volatile organic compounds (VOCs) and nitrogen oxides and sulfur oxides by photocatalysis.

### ASPHALT / BITUMENS

ID: 8052-42-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-12-06

%: 31.00 - 35.00

GS: LT-1

RC: None

NANO: No

ROLE: Bituminous binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
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: The material used as the primary component in Paradiene 30 FR Eco-Activ® roofing and waterproofing membrane.

### CALCIUM BORATE (PRIMARY CASRN IS 12007-56-6)

ID: 167077-83-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-06**

#: **10.00 - 13.00**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Flame retardant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
REPRODUCTIVE	GHS - Australia	H360Fd - May damage fertility. Suspected of damaging the unborn child

SUBSTANCE NOTES: The material used as the flame retardant component in Paradiene 30 FR Eco-Activ® roofing and waterproofing membrane.

### QUARTZ

ID: 14808-60-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-06**

#: **5.00 - 8.00**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Parting Agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
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	GHS - New Zealand	6.7A - Known or presumed human carcinogens
CANCER	GHS - Japan	Carcinogenicity - Category 1A [H350]
CANCER	GHS - Australia	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: The material used as the parting agent component in Paradiene 30 FR Eco-Activ® roofing and waterproofing membrane.

### LIMESTONE, CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-06**

#: **3.00 - 7.00**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Mineral stabilizer**

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

SUBSTANCE NOTES: The material used as the mineral stabilizing component in Paradiene 30 FR Eco-Activ® roofing and waterproofing membrane.

### STYRENE BUTADIENE RUBBER (SBR)

ID: 9003-55-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-06**

#: **3.00 - 7.00**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Polymeric modifier**

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

SUBSTANCE NOTES: The material used as the asphalt modifying component in Paradiene 30 FR Eco-Activ® roofing and waterproofing membrane.

### HYDROCARBON OILS, PROCESS BLENDS

ID: 68131-05-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-06**

%: **0.50 - 1.00**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Reduce Viscosity**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The material used as the viscosity reducing component in Paradiene 30 FR Eco-Activ® roofing and waterproofing membrane.

**CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE**

ID: **65997-17-3**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-06**

%: **0.50 - 1.50**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Reinforcement material**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The material used as the reinforcement component in Paradiene 30 FR Eco-Activ® roofing and waterproofing membrane.

## 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**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **All**

**11-18**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **VOC Emissions testing has not been performed for this product.**

## 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

Paradiene 30 FR TG Eco-Activ® meets or exceeds the requirements of ASTM D 6163 Type I, Grade G, and CSA A123.23-15 Type A, Grade 1 for SBS-modified bituminous sheet materials using glass fiber reinforcements. The Siplast Eco-Activ® concept for granule-surfaced roofs has been recognized in Europe by the CSTB as an environmental protection innovation in the field of roof membranes under Pass-Innovation Report 2009-016. Testing to validate the reduction of air pollutants was carried out by the CNRS (National Scientific Research Center). A study conducted by the Department of Analytical Chemistry at Munich Technical University confirmed the catalytic effect of Noxite® Roofing Granules. Other references include: CSTB Pass' Innovation Final Report: No.2009-016, for Eco-Activ® Roofing & Waterproofing, and Characterization of Gas Polluted Phase in Contact of Materials Made by Icopal, CNRS. Siplast has achieved a UL Environment claim validation (ULe Project No. 13CA02333) for Eco-Activ® Roof Membrane's ability to remove an estimated 417-4,143 g NOx per roofing square over 20 years.



## MANUFACTURER INFORMATION

MANUFACTURER: **Siplast, Inc.**

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**Arkadelphia AR 71923, USA**

WEBSITE: **www.siplast.com**

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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

**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 (insufficient 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.*