

HPD UNIQUE IDENTIFIER: 27025

CLASSIFICATION: 07 42 43 Composite Wall Panels

PRODUCT DESCRIPTION: This HPD covers Norex® panels by Norbec Architectural Inc. Norex® panels are high-energy-efficient insulated panels with a polyisocyanurate (polyurethane) core designed for building envelopes. Norex® panels are offered in three configurations: Norex®-I, Norex®-H, Norex®-S. more specifically, the HPD has been prepared based on average compositions of Norex®-L (42½ in.), Norex®-H (41½ in.), Norex®-S (44 in.) using a polyisocyanurate core of 4 inches average thick and a 26 gauge thickness for steel sheets

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input checked="" type="radio"/> Nested Materials Method</p> <p><input type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p>	<p>Threshold Level</p> <p><input type="radio"/> 100 ppm</p> <p><input checked="" type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p>Considered in 4 of 4 Materials</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p>Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>% weight and role provided for all substances.</i></p> <p>Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>All substances screened using Priority Hazard Lists with results disclosed.</i></p> <p>Identified <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p><i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i></p>
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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**

PRE-PAINTED GALVANIZED STEEL SHEETS [ IRON LT-P1 | END  
MANGANESE LT-P1 | END | MUL | REP NICKEL LT-1 | CAN | RES | MUL |  
SKI | MAM CHROMIUM LT-P1 | END | SKI | RES ZINC LT-P1 | END |  
MUL | PHY | AQU TITANIUM DIOXIDE LT-1 | CAN | END TERLON NoGS  
BUTYL ACRYLATE - HYDROXYETHYL ACRYLATE - METHYL  
METHACRYLATE COPOLYMER LT-UNK STRONTIUM CHROMATE LT-  
1 | CAN | SKI | MUL | DEV | REP | GEN | AQU MOLYBDENUM LT-UNK  
COPPER LT-UNK | AQU POLYVINYLIDENE FLUORIDE LT-UNK 1,3,5-  
TRIAZINE-2,4,6-TRIAMINE, POLYMER WITH FORMALDEHYDE,  
METHYLATED LT-UNK BISPHENOL A-BISPHENOL A DIGLYCIDYL  
ETHER POLYMER LT-P1 | END 2,2,4-TRIMETHYL-1,3-PENTANEDIOL  
DIISOBUTYRATE LT-P1 | END ZINC PHOSPHATE LT-P1 | MUL | AQU  
PHOSPHORIC ACID,COMPOUNDS,NICKEL(2+) ZINC SALT (2:1:2) LT-1  
| CAN | RES FATTY ACIDS, CASTOR-OIL, CAUSTIC-OXIDIZED, DISTN.  
RESIDUES, ESTERS WITH 1,3-BUTANEDIOL NoGS FATTY ACIDS,  
CASTOR-OIL, CAUSTIC-OXIDIZED, DISTN. RESIDUES, ESTERS WITH  
1,3-BUTANEDIOL NoGS ] POLYISOCIANURATE FOAM INSULATION [  
POLYMETHYLENE POLYPHENYL ISOCYANATE LT-UNK | MUL | RES |  
CAN 4,4'-DIPHENYLMETHANE DIISOCYANATE LT-UNK | MUL | RES |  
CAN | SKI | EYE UNDISCLOSED LT-UNK 2,4'-DIPHENYLMETHANE  
DIISOCYANATE LT-UNK | MUL | RES | SKI | EYE | CAN  
TRI(CHLOROPROPYL) PHOSPHATE (PRIMARY CASRN IS 13674-84-5)  
BM-U | END | MUL | PBT UNDISCLOSED LT-UNK TRIETHYL  
PHOSPHATE LT-UNK UNDISCLOSED NoGS DIETHYLENE GLYCOL  
LT-P1 | END UNDISCLOSED LT-1 | PBT | MUL N,N-  
DIMETHYLBENZYLAMINE LT-P1 | MUL | SKI POTASSIUM 2-  
ETHYLHEXANOATE LT-UNK POTASSIUM 2-ETHYLHEXANOATE LT-  
UNK UNDISCLOSED BM-2 PENTANE LT-P1 | MUL | PHY | MAM | AQU ]  
ADHESIVE [ ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE

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:

This HPD has been prepared using the Material Content Inventory. Guidelines for reporting reaction products are still under development by HPDC. Norbec® Company will update the HPD accordingly once these guidelines get published. In this HPD, for adhesive, substances at or above the threshold, have been declared as unreacted. Substances present in Norex® panels as well as known residuals and impurities, have been disclosed at 1,000 ppm. More details about how residuals and impurities were considered available in the appropriate sections. Some substances are proprietary, hence, they are not identified.

ESTER, POLYMER WITH ALPHA-HYDRO-OMEGA-  
HYDROXPOLY(OXY(METHYL-1,2-ETHANEDIYL)) LT-P1 4,4'-  
DIPHENYLMETHANE DIISOCYANATE LT-UNK | MUL | RES | CAN | SKI |  
EYE 2,4'-DIPHENYLMETHANE DIISOCYANATE LT-UNK | MUL | RES |  
SKI | EYE | CAN POLYMETHYLENE POLYPHENYL ISOCYANATE LT-  
UNK | MUL | RES | CAN ] SEALANT [ UNDISCLOSED BM-3dg  
UNDISCLOSED LT-UNK C13-14 ISOPARAFFIN BM-2 | CAN | MAM  
UNDISCLOSED LT-P1 UNDISCLOSED NoGS UNDISCLOSED LT-UNK  
UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | CAN | END  
UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-  
UNK UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | END | MUL | REP |  
SKI ]

**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: CDPH Standard Method - Not tested

**CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

- Yes
- No

PREPARER: Vertima

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2022-01-07

PUBLISHED DATE: 2022-01-07

EXPIRY DATE: 2025-01-07

## 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 2.2, available on the HPDC website at: [www.hpdc-collaborative.org/hpd-2-2-standard](http://www.hpdc-collaborative.org/hpd-2-2-standard)

### PRE-PAINTED GALVANIZED STEEL SHEETS

#: 64.4300 - 65.9000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: There are no known impurities.

OTHER MATERIAL NOTES: Different suppliers of galvanized steel and different paints are used for Norex panels. Weight percentage may vary as this HPD covers multiple configurations and thicknesses of Norex panels. Galvanized steel represents 98% to 99,5% of prepainted sheets and the remaining is paint. An average composition of most common paint used for those panels has been used for the HPD preparation.

### IRON

ID: 7439-89-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-01-07 15:17:27

#: 90.0000 - 95.0000

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Structure component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

END

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

### MANGANESE

ID: 7439-96-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-01-07 15:17:38

#: 2.0000 - 2.2300

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

END

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MUL

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

REP

GHS - Japan

H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

### NICKEL

ID: 7440-02-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-01-07 15:17:43

#: 0.2000 - 0.2500

GS: LT-1

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element



HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H260 - In contact with water releases flammable gases which may ignite spontaneously [Substances and mixtures which, in contact with water, emit flammable gases - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

## TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:46**

#: **0.1500 - 0.4700** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surface modifier**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

## TERLON

ID: 63148-69-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:47**

#: **0.1000 - 0.1300** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surface modifier**

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

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

**BUTYL ACRYLATE - HYDROXYETHYL ACRYLATE - METHYL METHACRYLATE COPOLYMER**

ID: 25951-38-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:48**

%: **0.1000 - 0.1200** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surface modifier**

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

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

**STRONTIUM CHROMATE**

ID: 7789-06-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:49**

%: **0.0600 - 0.1000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surface modifier**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
DEV	CA EPA - Prop 65	Developmental toxicity
CAN	EU - SVHC Authorisation List	Carcinogenic - Candidate list
CAN	EU - SVHC Authorisation List	Carcinogenic - Banned unless Authorised
REP	CA EPA - Prop 65	Reproductive Toxicity - Female
REP	CA EPA - Prop 65	Reproductive Toxicity - Male
GEN	MAK	Germ Cell Mutagen 2
CAN	GHS - New Zealand	6.7A - Known or presumed human carcinogens
CAN	GHS - Australia	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Korea	H350 - May cause cancer [Carcinogenicity - Category 1]
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:17:52</b>		
#: <b>0.0000 - 0.1000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Alloy element</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.				

**COPPER** ID: 7440-50-8

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:17:51</b>		
#: <b>0.0000 - 0.2000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Alloy element</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
AQU	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects		
SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.				

**POLYVINYLIDENE FLUORIDE** ID: 24937-79-9

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:17:56</b>		
#: <b>0.0000 - 0.4000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Surface modifier</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.				

**1,3,5-TRIAZINE-2,4,6-TRIAMINE, POLYMER WITH FORMALDEHYDE, METHYLATED** ID: 68002-20-0

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:17:58</b>		
#: <b>0.0000 - 0.1100</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Surface modifier</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.				

**BISPHENOL A-BISPHENOL A DIGLYCIDYL ETHER POLYMER** ID: 25036-25-3

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2021-12-21 18:34:33</b>		
#: <b>0.0000 - 0.1700</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Surface modifier</b>



HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

**2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE**

ID: 6846-50-0

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:17:50</b>		
#: 0.0000 - 0.1500	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Surface modifier</b>

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

**ZINC PHOSPHATE**

ID: 7779-90-0

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:17:56</b>		
#: 0.0000 - 0.9000	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Surface modifier</b>

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

**PHOSPHORIC ACID,COMPOUNDS,NICKEL(2+) ZINC SALT (2:1:2)**

ID: 90053-13-7

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:17:58</b>		
#: 0.0000 - 0.1000	GS: <b>LT-1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Surface modifier</b>

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

FATTY ACIDS, CASTOR-OIL, CAUSTIC-OXIDIZED, DISTN. RESIDUES,  
ESTERS WITH 1,3-BUTANEDIOL

ID: 113669-95-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-01-07 15:17:59

#: 0.0000 - 0.1700 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Surface modifier

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

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

FATTY ACIDS, CASTOR-OIL, CAUSTIC-OXIDIZED, DISTN. RESIDUES,  
ESTERS WITH 1,3-BUTANEDIOL

ID: 113669-95-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-01-07 15:18:00

#: 0.0000 - 0.3300 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Surface modifier

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

SUBSTANCE NOTES: Ranges are used to cover all Norex panels product configurations and thicknesses. The percentage vary because, different pre-painted galvanized steel sheets suppliers have different recipes.

POLYISOCYANURATE FOAM INSULATION #: 30.5800 - 34.8700

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: No halogen-based ingredients are intentionally added to the foam mixture. Prior to the foam reaction during panel manufacturing, ingredients are mixed in liquid form within tanks. The final product may contain trace residuals of halogenated compounds remaining from previous products mixed in the same tank.

OTHER MATERIAL NOTES: Polyisocyanurate foam free of intentionally-added halogenated compounds. This particular foam blend was created uniquely for this product; therefore, no specific CAS# is applicable. The closest resemblance is CAS# 27026-93-3. Approximate percentage amounts of substances of the post-reaction foam were derived from reaction chemistry.

POLYMETHYLENE POLYPHENYL ISOCYANATE

ID: 9016-87-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-01-07 15:17:29

#: 38.2700 - 44.6300 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Polymer species

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

4,4'-DIPHENYLMETHANE DIISOCYANATE

ID: 101-68-8

%: **19.1400 - 25.5000**GS: **LT-UNK**RC: **None**NANO: **No**SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
EYE	EU - GHS (H-Statements) Annex 6 Table 3-1	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
RES	EU - GHS (H-Statements) Annex 6 Table 3-1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

**UNDISCLOSED**ID: **Undisclosed**%: **12.4100 - 18.3100**GS: **LT-UNK**RC: **None**NANO: **No**SUBSTANCE ROLE: **Intermediate**

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

**2,4'-DIPHENYLMETHANE DIISOCYANATE**ID: **5873-54-1**%: **3.1900 - 6.3800**GS: **LT-UNK**RC: **None**NANO: **No**SUBSTANCE ROLE: **Intermediate**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
EYE	EU - GHS (H-Statements) Annex 6 Table 3-1	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
RES	EU - GHS (H-Statements) Annex 6 Table 3-1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

#### TRI(CHLOROPROPYL) PHOSPHATE (PRIMARY CASRN IS 13674-84-5)

ID: 98112-32-4

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:17:37</b>		
#: <b>3.1000 - 6.1000</b>	GS: <b>BM-U</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Monomer</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
MUL	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment		
PBT	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport		

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold

#### UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:17:36</b>		
#: <b>3.1000 - 6.1000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Monomer</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

#### TRIETHYL PHOSPHATE

ID: 78-40-0

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:17:39</b>		
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#: 1.5500 - 3.0500

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Intermediate

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:39**

#: 0.5000 - 0.6800

GS: NoGS

RC: None

NANO: No

SUBSTANCE ROLE: Polymer species

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

**DIETHYLENE GLYCOL**

ID: **111-46-6**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:40**

#: 0.3100 - 1.5300

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Intermediate

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:41**

#: 0.3100 - 1.5300

GS: LT-1

RC: None

NANO: No

SUBSTANCE ROLE: Intermediate

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
MUL	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment
PBT	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

**N,N-DIMETHYLBENZYLAMINE**

ID: **103-83-3**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:42**

#: 0.3100 - 0.7600

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Intermediate

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

### POTASSIUM 2-ETHYLHEXANOATE

ID: 3164-85-0

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2021-12-21 18:16:51</b>	
%: <b>0.3100 - 0.9200</b> GS: <b>LT-UNK</b> RC: <b>None</b> NANO: <b>No</b> SUBSTANCE ROLE: <b>Catalyst</b>		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

### POTASSIUM 2-ETHYLHEXANOATE

ID: 3164-85-0

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-01-07 15:17:45</b>	
%: <b>0.1700 - 0.2600</b> GS: <b>LT-UNK</b> RC: <b>None</b> NANO: <b>No</b> SUBSTANCE ROLE: <b>Catalyst</b>		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

### UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-01-07 15:17:49</b>	
%: <b>0.0300 - 0.6100</b> GS: <b>BM-2</b> RC: <b>None</b> NANO: <b>No</b> SUBSTANCE ROLE: <b>Intermediate</b>		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

### PENTANE

ID: 109-66-0

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2021-12-21 18:34:31</b>
%: <b>0.0000 - 0.2800</b> GS: <b>LT-P1</b> RC: <b>None</b> NANO: <b>No</b> SUBSTANCE ROLE: <b>Blowing agent</b>	

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

#### ADHESIVE

#: 0.0000 - 0.7000

PRODUCT THRESHOLD: 1000 ppm      RESIDUALS AND IMPURITIES CONSIDERED: Yes      MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities declared by the manufacturers are below the reporting threshold.

OTHER MATERIAL NOTES: Material weight percentage intervals are used to cover different configurations and thicknesses of Norex panels.

#### ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH ALPHA-HYDRO-OMEGA-HYDROXPOLY(OXY(METHYL-1,2-ETHANEDIYL))

ID: 53862-89-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library      HAZARD SCREENING DATE: 2022-01-07 15:17:28

#: 60.0000 - 70.0000      GS: LT-P1      RC: None      NANO: No      SUBSTANCE ROLE: Adhesive

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

#### 4,4'-DIPHENYLMETHANE DIISOCYANATE

ID: 101-68-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library      HAZARD SCREENING DATE: 2022-01-07 15:17:29

#: 20.0000 - 30.0000      GS: LT-UNK      RC: None      NANO: No      SUBSTANCE ROLE: Intermediate

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
EYE	EU - GHS (H-Statements) Annex 6 Table 3-1	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
RES	EU - GHS (H-Statements) Annex 6 Table 3-1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

## 2,4'-DIPHENYLMETHANE DIISOCYANATE

ID: 5873-54-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:34**

#: **10.0000 - 20.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Intermediate**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
EYE	EU - GHS (H-Statements) Annex 6 Table 3-1	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
RES	EU - GHS (H-Statements) Annex 6 Table 3-1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.



HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:34**%: **10.0000 - 20.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

**SEALANT**%: **0.0000 - 1.6100**PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: **Yes** MATERIAL TYPE: **Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities declared by the manufacturers are below the reporting threshold.

OTHER MATERIAL NOTES: Material weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Confidential information regarding sealant substances have been retained, hence, substances are undisclosed.

**UNDISCLOSED**ID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:28**%: **40.0000 - 50.0000** GS: **BM-3dg** RC: **None** NANO: **No** SUBSTANCE ROLE: **Desiccant**

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

**UNDISCLOSED**ID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:30**%: **20.0000 - 30.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Reagent**

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

**C13-14 ISOPARAFFIN**ID: **64742-47-8**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:33**

#: 10.0000 - 20.0000 GS: BM-2 RC: None NANO: No SUBSTANCE ROLE: Solvent

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:55**

#: 0.0000 - 5.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Desiccant

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-12-21 18:34:36**

#: 0.0000 - 5.0000 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Water resistance

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:17:59**

#: 0.0000 - 5.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Polymer species

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:18:00**

#: 0.0000 - 5.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Monomer

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:18:02</b>		
%: <b>0.0000 - 5.0000</b>	GS: <b>LT-1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Reagent</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen		
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route		
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources		
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value		
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels		
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]		

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:18:03</b>		
%: <b>0.0000 - 5.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Intermediate</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-01-07 15:18:04</b>		
%: <b>0.0000 - 5.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Reagent</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:18:09**

%: **0.0000 - 5.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Reagent**

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:18:10**

%: **0.0000 - 5.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Reagent**

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

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-07 15:18:10**

%: **0.0000 - 8.0000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Reagent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]

SUBSTANCE NOTES: Substance weight percentage intervals are used to cover different configurations and thicknesses of Norex panels. Residuals and impurities declared by the manufacturers are below the reporting threshold. This substance is undisclosed as it is proprietary.

## 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 Standard Method - Not tested		
CERTIFYING PARTY: Self-declared	ISSUE DATE: 2021-07-	EXPIRY DATE:	CERTIFIER OR LAB: Norbec
APPLICABLE FACILITIES: Norbec	20		
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.*

No accessories are required for this product.

## Section 5: General Notes

Norex panels can be found in a variety of applications including industrial and commercial buildings, cold-storage and controlled environment buildings, sports centers, interior partitions and suspended ceilings with limited load-bearing capacity.

**MANUFACTURER INFORMATION**

**MANUFACTURER:** Norbec Architectural Inc./Norbec Systems Inc.  
**ADDRESS:** 97 Rue de Vaudreuil, Boucherville  
 Quebec Quebec J4B 1K7, Canada  
**WEBSITE:** <https://norbec.com/>

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**TITLE:** R&D Director  
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*The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.*

**KEY**

**Hazard Types**

<b>AQU</b> Aquatic toxicity	<b>LAN</b> Land toxicity	<b>PHY</b> Physical hazard (flammable or reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple	<b>RES</b> Respiratory sensitization
<b>END</b> Endocrine activity	<b>NEU</b> Neurotoxicity	<b>SKI</b> Skin sensitization/irritation/corrosivity
<b>EYE</b> Eye irritation/corrosivity	<b>NF</b> Not found on Priority Hazard Lists	<b>UNK</b> Unknown
<b>GEN</b> Gene mutation	<b>OZO</b> Ozone depletion	
<b>GLO</b> Global warming	<b>PBT</b> Persistent, bioaccumulative, and toxic	

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-1</b> List Translator 1 (Likely Benchmark-1)
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-UNK</b> List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>NoGS</b> No GreenScreen.
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	
<b>BM-U</b> Benchmark Unspecified (due to insufficient data)	
<b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1)	

**Recycled Types**

**PreC** Pre-consumer recycled content  
**PostC** Post-consumer recycled content  
**UNK** Inclusion of recycled content is unknown  
**None** Does not include recycled content

**Other Terms:**

**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**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.*