created via: HPDC Online Builder

**HPD UNIQUE IDENTIFIER: 27023** 

CLASSIFICATION: 11 41 23 Walk-In Coolers

PRODUCT DESCRIPTION: This HPD covers Norbec® panels by Norbec Systems Inc. Norbec® panels are high-energy-efficiency insulated panels for the building of cold rooms (freezers, refrigerators, storage space). More specifically, the HPD has been prepared based on average compositions of Norbec® (47 in.) using a polyurethane foam core of 4 inches average thick and a 26 gauge thickness for steel sheets. Other CSI masterformat® designations that apply to Norbec® panels: 11 41 26, 13 21 13, 13 21 26

# Section 1: Summary

## **Nested Method / Product Threshold**

#### CONTENT INVENTORY

**Inventory Reporting Format** 

- Nested Materials Method
- C Basic Method

**Threshold Disclosed Per** 

- Material
- Product

Threshold Level

- C 100 ppm ⊙ 1,000 ppm
- O Per GHS SDS
- Other

Residuals/Impurities

Considered in 3 of 4 Materials

Explanation(s) provided for Residuals/Impurities?

Yes ○ No

All Substances Above the Threshold Indicated Are: ○ Yes Ex/SC ⊙ Yes ○ No

Characterized

% weight and role provided for all substances.

○ Yes Ex/SC ⊙ Yes ○ No Screened

All substances screened using Priority Hazard Lists with results disclosed.

Identified ○ Yes Ex/SC ⊙ Yes ○ No

All substances disclosed by Name (Specific or Generic) and Identifier.

#### **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 COPPER LT-P1 | AQU MOLYBDENUM LT-UNK FATTY ACIDS, CASTOR-OIL, CAUSTIC-OXIDIZED, DISTN. RESIDUES, ESTERS WITH 1,3-BUTANEDIOL NoGS PHOSPHORIC ACID, COMPOUNDS, NICKEL(2+) ZINC SALT (2:1:2) LT-1 | CAN | RES ZINC PHOSPHATE LT-P1 | MUL | AQU 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE LT-P1 | END BISPHENOL A-BISPHENOL A DIGLYCIDYL ETHER POLYMER LT-P1 | END 1,3,5-TRIAZINE-2,4,6-TRIAMINE, POLYMER WITH FORMALDEHYDE, METHYLATED LT-UNK FATTY ACIDS, CASTOR-OIL, CAUSTIC-OXIDIZED, DISTN. RESIDUES, ESTERS WITH 1,3-BUTANEDIOL NoGS POLYVINYLIDENE FLUORIDE LT-UNK ] INSULATING MATERIAL [ CHLOROTRIFLUOROPROPENE NoGS POLYURETHANE FOAMS LT-UNK ] CAMLOCK [ ZINC LT-P1 | AQU | END | MUL | PHY STEEL NoGS ] HIGH IMPACT POLYSTYRENE [ POLYSTYRENE 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:

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 Norbec® 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.

# **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

PREPARER: Vertima
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2022-01-07 PUBLISHED DATE: 2022-01-07 EXPIRY DATE: 2025-01-07

⊙ No

# 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.hpd-collaborative.org/hpd-2-2-standard

#### PRE-PAINTED GALVANIZED STEEL SHEETS

%: 62.7800 - 63.5500

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 Noroc panels. Weight percentage may vary as this HPD covers multiple configurations and thicknesses of Noroc 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: <b>7439-89-</b> 6
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2022-01-07 15:06:11
%: 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 Norbec panels configurations and thicknesses. The percentage vary because, different prepainted galvanized steel sheets suppliers have different recipes.

MANGANESE ID: 7439-96-5

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZAR	HAZARD SCREENING DATE:		2022-01-07 15:06:12	
%: 2.0000 - 2.2300	GS: <b>LT-P1</b>	RC: No	ne	NANO: No	SUBSTANCE ROLE: Alloy element	
HAZARD TYPE	AGENCY AND LIST TITLES			WARNINGS Potential Endocrine Disruptor		
END	TEDX - Potential Endocrine Disruptors					
MUL	German FEA - Substances Hazardous Waters	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters		
REP	GHS - Japan	Japan		H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]		

SUBSTANCE NOTES: Ranges are used to cover all Norbec panels configurations and thicknesses. The percentage vary because, different prepainted galvanized steel sheets suppliers have different recipes.

NICKEL		ID: 7440-02-0
HAZARD SCREENING METHOD: Pharos Chemical and Materials Lik	ibrary HAZARD SCREENING DATE: 2022-01-07 15:06:13	

%: 0.2000 - 0.2500

GS: **LT-1** 

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen		
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man		
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		
CAN	IARC	Group 2b - Possibly carcinogenic to humans  Asthmagen (Rs) - sensitizer-induced  Reasonably Anticipated to be Human Carcinogen  Sensitizing Substance Sah - Danger of airway & skin sensitization		
RES	AOEC - Asthmagens			
CAN	US NIH - Report on Carcinogens			
RES	MAK			
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
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	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]		
МАМ	EU - GHS (H-Statements) Annex 6 Table 3-1	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]		

CHROMIUM					ID: 7440-47-
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARI	o sc	REENING DATE:	2022-01-07 15:06:14
%: 0.2000 - 0.6500	GS: LT-P1	RC: No	пе	NANO: No	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	AGENCY AND LIST TITLES		WAF	RNINGS	
END	TEDX - Potential Endocrine Disruptors		Pote	ential Endocrine I	Disruptor
SKI	MAK		Sen	sitizing Substanc	e Sh - Danger of skin sensitization
RES	AOEC - Asthmagens		Asth	nmagen (Rs) - ser	nsitizer-induced
SUBSTANCE NOTES: Ranges are used to cover all Norbec panels configurations and thicknesses. The percentage vary because, different pre-					

ZINC					ID: 7440-66-6
HAZARD SCREENING METHOD: Pharos C	hemical and Materials Library	HAZARD SCR	REENING DATE:	2022-01-07 15:06:15	
%: 0.1500 - 9.1000	GS: LT-P1	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE:	Galvanizing

painted galvanized steel sheets suppliers have different recipes.

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]

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	rary HAZARD SCREENING DATE: 2022-01-07 15:06:16			
%: 0.1500 - 0.4700	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Surface modifier	
HAZARD TYPE	AGENCY AND LIST TITLES	V	VARNINGS		
CAN	US CDC - Occupational Carcinogens	(	Occupational Card	cinogen	
CAN	CA EPA - Prop 65	Carcinogen - sp		cific to chemical form or exposure route	
CAN	IARC	Group 2B - Possibly carcinogenic to h from occupational sources			
CAN	MAK	Carcinogen Group 3A - Evidence of but not sufficient to establish MAK		o 3A - Evidence of carcinogenic effects to establish MAK/BAT value	
END	TEDX - Potential Endocrine Disruptors	; F	otential Endocrir	ne Disruptor	
CAN	MAK		Carcinogen Group isk under MAK/B	o 4 - Non-genotoxic carcinogen with low AT levels	
4					

SUBSTANCE NOTES: Ranges are used to cover all Norbec panels configurations and thicknesses. The percentage vary because, different prepainted galvanized steel sheets suppliers have different recipes.

Category 2]

EU - GHS (H-Statements) Annex 6 Table 3-1

TERLON ID: 63148-69-0				
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-01-07 15:06:17		
%: <b>0.1000 - 0.1300</b>	GS: NoGS	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Surface modifier
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS	
None found			No warn	ings found on HPD Priority Hazard Lists

CAN

TITANIUM DIOXIDE

H351 - Suspected of causing cancer [Carcinogenicity -

ID: 13463-67-7

# 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 15:06:18

%: 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 Norbec panels configurations and thicknesses. The percentage vary because, different prepainted 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 15:06:19

%: 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]

COPPER ID: 7440-50-8

HAZARD SCREENING METHO	D: Pharos Chemical and Materials Library	and Materials Library HAZARD SCREENING DATE		2021-07-09 17:29:16	
%: 0.0000 - 0.2000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Alloy element	
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS		
AQU	EU - GHS (H-Statements)	H41	1 - Toxic to aqua	atic life with long lasting effects	
SUBSTANCE NOTES: Ranges are used to cover all Norbec panels configurations and thicknesses. The percentage vary because, different prepainted galvanized steel sheets suppliers have different recipes.					

MOLYBDENUM ID: 7439-98					
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE:		: 2022-01-07 15:06:20	
%: 0.0000 - 0.1000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Alloy element	
HAZARD TYPE	AGENCY AND LIST TITLES	WAI	RNINGS		
None found			No warning	gs found on HPD Priority Hazard Lists	

# 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 15:06:27				
%: <b>0.0000 - 0.1700</b>	GS: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Surface modifier		
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS			

SUBSTANCE NOTES: Ranges are used to cover all Norbec panels configurations and thicknesses. The percentage vary because, different prepainted galvanized steel sheets suppliers have different recipes.

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

ID: 90053-13-7

No warnings found on HPD Priority Hazard Lists

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2022-01-07 15:06:26				
%: 0.0000 - 0.1000	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Surface modifier		
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 Norbec panels configurations and thicknesses. The percentage vary because, different prepainted galvanized steel sheets suppliers have different recipes.

ZINC PHOSPHATE ID: 7779-90-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-01-07 15:06:25

None found

%: 0.0000 - 0.9000	GS: LT-P1	RC: No	one	NANO: <b>No</b>	SUBSTANCE ROLE: Surface modifier
HAZARD TYPE	AGENCY AND LIST TITLES		WA	RNINGS	
MUL	German FEA - Substances Hazardous Waters	s to	Cla	ss 2 - Hazard t	o Waters
AQU	EU - GHS (H-Statements) Annex 6 Tal	ble 3-1		•	to aquatic life [Hazardous to the aquatic e) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Tal	ble 3-1	[Ha	•	to aquatic life with long lasting effects aquatic environment (chronic) -

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

ID: 6846-50-0

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2022-01-07 15:06:24			
%: 0.0000 - 0.1500	GS: <b>LT-P1</b>	RC: Non	е	NANO: No	SUBSTANCE ROLE: Surface modifier
HAZARD TYPE	AGENCY AND LIST TITLES	,	WAR	RNINGS	
END	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor		

SUBSTANCE NOTES: Ranges are used to cover all Norbec panels configurations and thicknesses. The percentage vary because, different prepainted galvanized steel sheets suppliers have different recipes.

#### **BISPHENOL A-BISPHENOL A DIGLYCIDYL ETHER POLYMER**

ID: 25036-25-3

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SO	TE: 2022-01-07 15:06:30		
%: 0.0000 - 0.1700	GS: <b>LT-P1</b>	RC: None	NANO: No	SUBSTANCE ROLE: Surface modifier	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
END	EU - Priority Endocrine Disruptors		egory 1 - In vi	vo evidence of Endocrine Disruption	

SUBSTANCE NOTES: Ranges are used to cover all Norbec panels configurations and thicknesses. The percentage vary because, different prepainted 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:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2022-01-07 15:06:31			
%: 0.0000 - 0.1100	GS: LT-UNK	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Surface modifier	
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS		
None found			No wari	nings found on HPD Priority Hazard Lists	
	%: <b>0.0000 - 0.1100</b> HAZARD TYPE	HAZARD TYPE AGENCY AND LIST TITLES	%: 0.0000 - 0.1100 GS: LT-UNK RC: None  HAZARD TYPE AGENCY AND LIST TITLES WA	%: 0.0000 - 0.1100 GS: LT-UNK RC: None NANO: No HAZARD TYPE AGENCY AND LIST TITLES WARNINGS	

SUBSTANCE NOTES: Ranges are used to cover all Norbec panels configurations and thicknesses. The percentage vary because, different prepainted galvanized steel sheets suppliers have different recipes.

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

ID: 113669-95-7

POLYVINYLIDENE FLUORIDE ID: 24937-79-9

SUBSTANCE NOTES: Ranges are used to cover all Norbec panels configurations and thicknesses. The percentage vary because, different pre-

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-01-07 15:06:32

%: 0.0000 - 0.4000 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 Norbec panels configurations and thicknesses. The percentage vary because, different prepainted galvanized steel sheets suppliers have different recipes.

**INSULATING MATERIAL** %: 29.9700 - 30.2900

painted galvanized steel sheets suppliers have different recipes.

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: According to the manufacturer, there are no impurities. Substances are entirely consumed during the chemical reaction but the blowing agent may still be present in the final product at a weight percentage of 6.75%, hence, it was included.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple configurations and thicknesses of Norbec panels.

CHLOROTRIFLUOROPROPENE ID: 102687-65-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-07-09 18:41:21

%: 0.0000 - 6.7500 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Blowing agent

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 Norbec panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

POLYURETHANE FOAMS ID: 9009-54-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-01-07 15:06:28

%: 0.0000 - 93.2500 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 Norbec panels. Residuals and impurities declared by the manufacturers are below the reporting threshold.

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: There are no known impurities.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple configurations and thicknesses of Norbec panels.

ZINC					ID: 7440-66-
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARI	D SCR	EENING DATE:	2021-07-09 18:47:37
%: 0.0000 - 6.8000	GS: <b>LT-P1</b>	RC: No	ne	NANO: No	SUBSTANCE ROLE: Galvanizing
HAZARD TYPE	AGENCY AND LIST TITLES		WAR	NINGS	
AQU	EU - GHS (H-Statements)		H400	- Very toxic to a	quatic life
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long la			equatic life with long lasting effects
END	TEDX - Potential Endocrine Disruptors	<b>3</b>	Poter	ntial Endocrine D	Disruptor
MUL	German FEA - Substances Hazardous Waters	to	Class	2 - Hazard to W	/aters
PHY	EU - GHS (H-Statements)		H250	- Catches fire s	pontaneously if exposed to air
РНҮ	EU - GHS (H-Statements)			- In contact with n may ignite spo	n water releases flammable gases ntaneously

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

STEEL				ID: 12597-69-2
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD S	CREENING D	DATE: 2021-07-09 18:45:54
%: 0.0000 - 93.2000	GS: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Structure component
HAZARD TYPE	AGENCY AND LIST TITLES	W	ARNINGS	
None found			No w	arnings found on HPD Priority Hazard Lists

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

HIGH IMPACT POLYSTYRENE	%: 1.2000
HIGH IMPACT POLYSTYRENE	%: 1.2000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Polymeric Material

MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: According to the manufacturer, there are no know impurities. Substances are entirely consumed during the chemical reaction but an additive may still be present in the final product and it is below reporting threshold.

OTHER MATERIAL NOTES: High impact polystyrene materials is used when Norbec panels are installed in a wall or roof corners.

POLYSTYRENE					ID: 9003-55-8
HAZARD SCREENING METHOD: F	Pharos Chemical and Materials Library	HAZARD S	CREENING D	DATE: 2022-01-07 15:06:10	
%: 100.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Structur	re component
HAZARD TYPE	AGENCY AND LIST TITLES	W	ARNINGS		
None found			No w	arnings found on HPD Priority	Hazard Lists



# 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.

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**VOC EMISSIONS** 

**CDPH Standard Method - Not tested** 

CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Norbec

ISSUE DATE: 2021-07- EXPIRY DATE:

CERTIFIER OR LAB: Norbec

**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

#### **MANUFACTURER INFORMATION**

MANUFACTURER: Norbec Architectural Inc./Norbec Systems Inc.

ADDRESS: 97 Rue de Vaudreuil, Boucherville

Quebec Quebec J4B 1K7, Canada WEBSITE: https://norbec.com/

CONTACT NAME: Alexandre Belisle

TITLE: R&D Director PHONE: 514 688-8628

EMAIL: abelisle@norbec.com

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** 

**AQU** Aquatic toxicity

**CAN** Cancer

**DEV** Developmental toxicity

**END** Endocrine activity

EYE Eye irritation/corrosivity

**GEN** Gene mutation

**GLO** Global warming

LAN Land toxicity

MAM Mammalian/systemic/organ toxicity

**MUL** Multiple

**NEU** Neurotoxicity

NF Not found on Priority Hazard Lists

**OZO** Ozone depletion

PBT Persistent, bioaccumulative, and toxic

PHY Physical hazard (flammable or reactive)

**REP** Reproductive

**RES** Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

**UNK** Unknown

#### 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 (due to insufficient data)

LT-P1 List Translator Possible 1 (Possible Benchmark-1)

LT-1 List Translator 1 (Likely Benchmark-1)

LT-UNK List Translator Benchmark Unknown (the chemical is

information contained within the list did not result in a clear mapping

to a LT-1 or LTP1 score.)

#### **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

present on at least one GreenScreen Specified List, but the

NoGS No GreenScreen.

## Other Terms:

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

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.