# Norbec ® by Norbec Architectural Inc./Norbec Systems Inc.

# CLASSIFICATION: 11 41 23

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 AND A 26 GAUGE THICKNESS FOR STEEL

# **Section 1: Summary**

# Based on the selected Content Inventory Threshold:

Threshold per	impurities	Characterized	0	0
material	considered in	Are the Percent Weight and Role provided for all substances?	Yes	No
<ul> <li>● 100 ppm</li> <li>● 1,000 ppm</li> <li>● Per GHS SDS</li> </ul>	4 of 4 materials See Section 2: Material Notes	Screened Are all substances screened using Priority Hazard Lists with results disclosed?	<b>⊙</b> Yes	O No
O Per OSHA MSDS O Other	• see Section 5: General Notes	Identified Are all substances disclosed by Name (Specific or Generic) and Identifier?	<b>O</b> Yes	<b>⊙</b> No

# CONTENT IN DESCENDING ORDER OF QUANTITY

Residuals and

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 ZINC LT-P1 | AQU | END | MUL | PHY TITANIUM DIOXIDE LT-1 | CAN | END TERLON NOGS ACRYLATES NOGS STRONTIUM CHROMATE LT-1 | MAM | CAN | AQU | DEV | REP | SKI | MUL | GEN CHROMIUM LT-P1 | RES | END COPPER LT-UNK MANGANESE LT-P1 | END | MUL | REP NICKEL LT-1 | MAM | CAN | SKI | AQU | RES | MUL ALUMINUM LT-P1 | RES | END | PHY CADMIUM LT-1 | MAM | CAN | AQU | REP | DEV | PBT | GEN | MUL | END | PHY LEAD LT-1 | MAM | AQU | DEV | REP | CAN | PBT | MUL | END | GEN ANTIMONY LT-1 | MAM | AQU | CAN POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER) LT-UNK POLYESTER NoGS FORMALDEHYDE, MELAMINE POLYMER. METHYLATED LT-UNK ACRYLONITRILE -METHYL-METHACRYLATE -VINYLIDENE CHLORIDE COPOLYMER LT-P1 | END 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE LT-P1 | END ] INSULATING MATERIAL #3 [ POLYURETHANE FOAMS LT-UNK 1,1,1,3,3-PENTAFLUOROPROPANE LT-UNK ] SEALANT #1 [ UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED BM-2 | MAM | CAN UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | CAN ] SEALANT #2 [ SILOXANES AND SILICONES, DI-ME, ME HYDROGEN LT-P1 LIMESTONE; CALCIUM CARBONATE LT-UNK POLYDIMETHYLSILOXANES LT-P1 | PBT 2-BUTANONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (8CI)(9CI) LT-UNK FUMED SILICA, CRYSTALLINE-FREE LT-UNK 1,2-ETHANEDIAMINE, N-(3-(TRIMETHOXYSILYL)PROPYL)-(9CI) LT-UNK BUTAN-2-ONE O,O',O''-(VINYLSILYLIDYNE)TRIOXIME BM-1 DIBUTYLTIN DILAURATE LT-1 PBT | MUL | END | REP\_OCTAMETHYLCYCLOTETRASILOXANE (D4) BM-1 | REP | END | PBT | MUL ] 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. Norbec® panels have been screened at 1000 ppm. Two different sealants can be used for the fabrication and/or installation of Norbec® panels that is why they have been both declared under "sealant #1" and "sealant #2".

#### **VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

#### **CERTIFICATIONS AND COMPLIANCE**

No certifications have been added to this HPD

	Self-Published*	VERIFIER:	SCREENING DATE: June 28, 2017	EXPIRY DATE*: June 28, 2020
	O Third Party Verified	VERIFICATION #:	RELEASE DATE: July 21, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details				

Builder



CONTENT

INVENTORY

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

ID: 7439-89-6				
%: 88.0000 - 98.8600	GS: LT-P1	RC: None	NANO: NO	ROLE: main element
HAZARDS:		AGENC	Y(IES) WITH WARNING	S:
ENDOCRINE	TEDX - Pote	ential Endocrine Disruptors	Potential Endoc	rine Disruptor
SUBSTANCE NOTES: S	ee Material Notes.			
ZINC			ID: 7440-	66-6
%: 0.1500 - 9.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: galvanizing element
HAZARDS:		AGENC	Y(IES) WITH WARNING	S:
ACUTE AQUATIC	EU - R-phras	ses	R50 - Very Toxi	c to Aquatic Organisms
ACUTE AQUATIC	EU - GHS (H	I-Statements)	H400 - Very tox	ic to aquatic life
CHRON AQUATIC	EU - GHS (H	H-Statements)	H410 - Very tox effects	ic to aquatic life with long lastir
ENDOCRINE	TEDX - Pote	ential Endocrine Disruptors	Potential Endoc	rine Disruptor
MULTIPLE	German FEA	A - Substances Hazardous to W	/aters Class 2 - Hazar	d to Waters
PHYSICAL HAZARD (REACTIVE)	EU - GHS (F	I-Statements)	H250 - Catches air	fire spontaneously if exposed
PHYSICAL HAZARD (REACTIVE)	EU - GHS (F	I-Statements)		ct with water releases flammat ay ignite spontaneously

TITANIUM DIOXIDE

ID: 13463-67-7

%: 0.1500 - 0.4700	GS: LT-1	RC: None	NANO: NO	ROLE: Paint ingredient	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
CANCER	US CDC - C	ccupational Carcinogens	Occupational Ca	arcinogen	
CANCER	CA EPA - Pi	op 65	Carcinogen - sp exposure route	ecific to chemical form or	
CANCER	IARC		Group 2B - Post inhaled from occ	sibly carcinogenic to humans - cupational sources	
ENDOCRINE	TEDX - Pote	ential Endocrine Disruptors	Potential Endoc	rine Disruptor	
CANCER	МАК		Carcinogen Gro effects but not s value	oup 3A - Evidence of carcinogenic sufficient to establish MAK/BAT	
SUBSTANCE NOTES: S	See Material Notes.				
TERLON			ID: 63148	3-69-6	
%: 0.1000 - 0.1300	GS: NoGS	RC: None	NANO: NO	ROLE: Paint ingredient	
HAZARDS:	AGENCY(IES) WITH WARNINGS:			S:	
None Found	No warnings found on HPD Priority lists				
SUBSTANCE NOTES: /	Approximation for "Alky	d polyester resin".			
ACRYLATES			ID: 10225	56-29-1	
%: 0.1000 - 0.2000	GS: NoGS	RC: None	NANO: NO	ROLE: Paint ingredient	
HAZARDS:		AGE	NCY(IES) WITH WARNING	S:	
None Found		No w	arnings found on HPD Priori	ty lists	
SUBSTANCE NOTES: /	Approximation for "acryl	ic resin".			
STRONTIUM CHROMA	TE		ID: 7789-	06-2	
%: 0.0600 - 0.0900	GS: LT-1	RC: None	NANO: NO	ROLE: Paint ingredient	
HAZARDS:		AGE	NCY(IES) WITH WARNING	S:	
MAMMALIAN	EU - R-phra	ses	R22 - Harmful if	Swallowed	
	EU - R-phra		R45 - May caus		

ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms			
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans			
CANCER	CA EPA - Prop 65	Carcinogen			
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity			
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female			
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen			
CANCER	EU - SVHC Authorisation List	Carcinogenic - Banned unless Authorised			
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life			
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects			
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction			
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer			
CANCER	EU - GHS (H-Statements)	H350i - May cause cancer by inhalation			
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man			
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant			
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters			
CANCER	МАК	Carcinogen Group 1 - Substances that cause cancer in man			
SKIN SENSITIZE	МАК	Sensitizing Substance Sh - Danger of skin sensitization			
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]			
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence			
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens			
CANCER	Japan - GHS	Carcinogenicity - Category 1A			
GENE MUTATION	МАК	Germ Cell Mutagen 2			
CANCER	Australia - GHS	H350 - May cause cancer			
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male			
SUBSTANCE NOTES: See Material Notes.					

CHROMIUM

ID: 7440-47-3

%: 0.0000 - 0.6400	GS: LT-P1	RC: None	NANO: NO	ROLE: alloying element	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
RESPIRATORY	AOEC - Asthmag	ens	Asthmagen (AR: forms only	s) - sensitizer-induced - inhalabl	
ENDOCRINE	TEDX - Potential	Endocrine Disruptors	Potential Endoc	rine Disruptor	
SUBSTANCE NOTES:	See Material Notes.				
COPPER			ID: 7440-5	50-8	
%: 0.0000 - 0.2000	GS: LT-UNK	RC: None	NANO: NO	ROLE: alloying elemen	
HAZARDS:		AGENCY(IE	ES) WITH WARNINGS	S:	
None Found		No warnings	s found on HPD Priorit	ty lists	
SUBSTANCE NOTES:	See Material Notes.				
MANGANESE			ID: 7439-5	96-5	
%: 0.0000 - 2.2000	GS: LT-P1	RC: None	NANO: NO	ROLE: alloying elemen	
HAZARDS:		AGENCY(IE	ES) WITH WARNINGS	5:	
ENDOCRINE	TEDX - Potential	Endocrine Disruptors	Potential Endoc	rine Disruptor	
MULTIPLE	German FEA - Su	ibstances Hazardous to Wate	rs Class 2 - Hazard	d to Waters	
REPRODUCTIVE	Japan - GHS		Toxic to reprodu	ction - Category 1B	
SUBSTANCE NOTES:	See Material Notes.				
NICKEL			ID: 7440-0	02-0	
%: 0.0000 - 0.2000	GS: LT-1	RC: None	NANO: NO	ROLE: alloying elemen	
HAZARDS:		AGENCY(IE	ES) WITH WARNINGS	3:	
MAMMALIAN	EU - R-phrases		R23 - Toxic by I	nhalation (gas, vapour, dust/mis	
CANCER	EU - R-phrases		R40 - Limited Ev	vidence of Carcinogenic Effects	
SKIN SENSITIZE	EU - R-phrases		R43 - May cause	e sensitization by skin contact	
	EU - R-phrases			serious damage to health by	

ACUTE AQUATIC	EU - R-phrases	R52 - Harmful to Aquatic Organisms
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinoger
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
MULTIPLE	German FEA - Substances Hazardous to Waters	S Class 2 - Hazard to Waters
CANCER	МАК	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	МАК	Sensitizing Substance Sah - Danger of airway & skin sensitization
SUBSTANCE NOTES: S	See Material Notes.	
ALUMINUM		ID: 7429-90-5
%: Impurity/Residual	GS: LT-P1 RC: None	NANO: NO ROLE: Impurity/Residua
HAZARDS:	AGENCY(IE	S) WITH WARNINGS:
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
RESPIRATORY	AOEC - Asthmagens TEDX - Potential Endocrine Disruptors	
		forms only
ENDOCRINE PHYSICAL HAZARD	TEDX - Potential Endocrine Disruptors	forms only Potential Endocrine Disruptor

SUBSTANCE NOTES: Galvanizing may add trace amounts of aluminum at 0.055w% max, antimony at 0.011w% max and lead at 0.004w% max.

CADMIUM

ID: 7440-43-9

%: Impurity/Residual	GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual	
HAZARDS:		AGENCY	(IES) WITH WARNING	GS:	
MAMMALIAN	EU - R-pl	hrases	R23 - Toxic by	/ Inhalation (gas, vapour, dust/mist)	
MAMMALIAN	EU - R-pl	hrases	R25 - Toxic if	Swallowed	
MAMMALIAN	EU - R-pł	hrases	R26 - Very To	xic by Inhalation	
CANCER	EU - R-pł	hrases	R45 - May cau	use cancer	
ORGAN TOXICANT	EU - R-pł	hrases	R48: Danger o prolonged exp	of serious damage to health by osure.	
ACUTE AQUATIC	EU - R-pl	hrases	R50 - Very To	xic to Aquatic Organisms	
REPRODUCTIVE	EU - R-pl	hrases	R62 - Possible	e risk of impaired fertility	
DEVELOPMENTAL	EU - R-pl	hrases	R63 - Possible	e risk of harm to the unborn child	
CANCER	US EPA ·	- IRIS Carcinogens	(1986) Group	B1 - Probable human Carcinogen	
CANCER	IARC		Group 1 - Age	nt is Carcinogenic to humans	
CANCER	CA EPA ·	CA EPA - Prop 65			
DEVELOPMENTAL	CA EPA ·	CA EPA - Prop 65		Developmental toxicity	
РВТ	US EPA ·	US EPA - Priority PBTs (NWMP)			
PBT	WA DoE	WA DoE - PBT			
GENE MUTATION	EU - R-pl	hrases	R68 - May cau	use irreversible effects	
REPRODUCTIVE	CA EPA	- Prop 65	Reproductive	Toxicity - Male	
CANCER	US CDC	- Occupational Carcinogens	Occupational	Carcinogen	
CANCER	US NIH -	Report on Carcinogens	Known to be a	human Carcinogen	
CANCER	EU - SVH	IC Authorisation List	Carcinogenic	- Candidate list	
РВТ	OSPAR - concern	Priority PBTs & EDs & equivalent	PBT - Chemic	al for Priority Action	
РВТ	OR DEQ	- Priority Persistent Pollutants	Priority Persis	tent Pollutant - Tier 1	
ACUTE AQUATIC	EU - GHS	S (H-Statements)	H400 - Very to	oxic to aquatic life	
CHRON AQUATIC	EU - GHS	S (H-Statements)	H410 - Very to effects	oxic to aquatic life with long lasting	
MAMMALIAN	EU - GHS	S (H-Statements)	H330 - Fatal if	inhaled	
GENE MUTATION	EU - GHS	S (H-Statements)	H341 - Suspe	cted of causing genetic defects	
CANCER	EU - GHS	S (H-Statements)	H350 - May ca	ause cancer	

REPRODUCTIVE	EU - GHS (H-Statements)	H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	МАК	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	New Zealand - GHS	6.6A - Known or presumed human mutagens
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
GENE MUTATION	МАК	Germ Cell Mutagen 3a
CANCER	Malaysia - GHS	H350 - May cause cancer
CANCER	Australia - GHS	H350 - May cause cancer
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air

SUBSTANCE NOTES: May be present as impurities in the galvanized steel.

LEAD		ID: 7439-92-1		
%: Impurity/Residual	GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual
HAZARDS:		AGE	ENCY(IES) WITH WARNING	S:
MAMMALIAN	EU - R-phrases		R20 - Harmful b dust/mist)	y Inhalation (gas or vapor or
MAMMALIAN	EU - R-phrases		R22 - Harmful if	Swallowed
ACUTE AQUATIC	EU - R-phrases		R50 - Very Toxi	c to Aquatic Organisms
DEVELOPMENTAL	EU - R-phrases		R61 - May caus	e harm to the unborn child

CANCERUS ECANCERIARCCANCERIARCCANCERCADEVELOPMENTALCAPBTUS EPBTWAREPRODUCTIVECACANCERUS E	c	Developmental Neurotoxicant (1986) Group B2 - Probable human Carcinogen Group 2a - Agent is probably Carcinogenic to humans Group 2b - Possibly carcinogenic to humans
CANCERIARCCANCERIARCCANCERCARDEVELOPMENTALCARPBTUS EPBTWARREPRODUCTIVECARREPRODUCTIVECARCANCERUS F	c	Group 2a - Agent is probably Carcinogenic to humans
CANCERIARCCANCERCADEVELOPMENTALCAPBTUSPBTWAREPRODUCTIVECAREPRODUCTIVECACANCERUS	C	humans
CANCERCADEVELOPMENTALCAPBTUSPBTWAREPRODUCTIVECAREPRODUCTIVECACANCERUS		Group 2b - Possibly carcinogenic to humans
DEVELOPMENTALCA EPBTUS EPBTWA EREPRODUCTIVECA EREPRODUCTIVECA ECANCERUS N	EPA - Prop 65	
PBTUS EPBTWA EREPRODUCTIVECA EREPRODUCTIVECA ECANCERUS N		Carcinogen
PBTWAREPRODUCTIVECAREPRODUCTIVECACANCERUS	EPA - Prop 65	Developmental toxicity
REPRODUCTIVECA EREPRODUCTIVECA ECANCERUS N	EPA - Priority PBTs (NWMP)	Priority PBT
REPRODUCTIVE CA E CANCER US N	DoE - PBT	PBT
CANCER US N	EPA - Prop 65	Reproductive Toxicity - Female
	EPA - Prop 65	Reproductive Toxicity - Male
PRT US F	NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
	EPA - Priority PBTs (PPT)	Priority PBT
PBT US E	EPA - Toxics Release Inventory PBTs	РВТ
PBT OSP conc		PBT - Chemical for Priority Action
PBT OR I	DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
	NIH - Reproductive & Developmental nographs	Clear Evidence of Adverse Effects - Developmental Toxicity
		Clear Evidence of Adverse Effects - Reproductive Toxicity
ACUTE AQUATIC EU -	- GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC EU -	- GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
DEVELOPMENTAL EU -	- GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE EU -	- GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL EU -	- GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE EU -	EU - REACH Annex XVII CMRs Known to impair fertility or cause E Toxicity in humans	
MULTIPLE Cher		
ENDOCRINE TED		

CANCER	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	МАК	Germ Cell Mutagen 3a
REPRODUCTIVE EU - Annex VI CMRs		Reproductive Toxicity - Category 1A

SUBSTANCE NOTES: Galvanizing may add trace amounts of aluminum at 0.055w% max, antimony at 0.011w% max and lead at 0.004w% max. Lead may also be present as an impurity in the steel at a concentration < 1ppm.

ANTIMONY	ID: 7440-36-0			
%: Impurity/Residual	GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual
HAZARDS:		AGEN	CY(IES) WITH WARNINGS	6:
MAMMALIAN	EU - R-phrase	es	R20 - Harmful b dust/mist)	y Inhalation (gas or vapor or
MAMMALIAN	EU - R-phrase	es	R22 - Harmful if	Swallowed
ACUTE AQUATIC	EU - R-phrase	es	R51 - Toxic to A	quatic Organisms
CHRON AQUATIC	EU - GHS (H-Statements)		H411 - Toxic to	aquatic life with long lasting effect
CANCER	МАК		Carcinogen Gro carcinogenic for	up 2 - Considered to be man
SUBSTANCE NOTES: 0 0.004w% max.	Salvanizing may add trac	e amounts of aluminum at 0.	055w% max, antimony at (	0.011w% max and lead at
0.004w% max.		e amounts of aluminum at 0.		
0.004w% max.				
0.004w% max.	ORIDE (1,1-DIFLUOROI	ETHENE HOMOPOLYMER) RC: None	ID: 24937	-79-9 ROLE: Paint ingredient
0.004w% max. POLYVINYLIDENE FLU %: 0.0000 - 0.4000	ORIDE (1,1-DIFLUOROI	ETHENE HOMOPOLYMER) RC: None AGEN	ID: 24937 NANO: NO	-79-9 ROLE: Paint ingredient
0.004w% max. POLYVINYLIDENE FLU %: 0.0000 - 0.4000 HAZARDS:	ORIDE (1,1-DIFLUOROI GS: LT-UNK	ETHENE HOMOPOLYMER) RC: None AGEN No wai	ID: 24937 NANO: NO CY(IES) WITH WARNINGS	-79-9 ROLE: Paint ingredient
0.004w% max. POLYVINYLIDENE FLU %: 0.0000 - 0.4000 HAZARDS: None Found	ORIDE (1,1-DIFLUOROI GS: LT-UNK	ETHENE HOMOPOLYMER) RC: None AGEN No wai	ID: 24937 NANO: NO CY(IES) WITH WARNINGS	-79-9 ROLE: Paint ingredient S: ty lists
0.004w% max. POLYVINYLIDENE FLU %: 0.0000 - 0.4000 HAZARDS: None Found SUBSTANCE NOTES: F	ORIDE (1,1-DIFLUOROI GS: LT-UNK	ETHENE HOMOPOLYMER) RC: None AGEN No wai	ID: 24937 NANO: NO CY(IES) WITH WARNINGS	-79-9 ROLE: Paint ingredient S: ty lists

FORMALDEHYDE, MEI	LAMINE POLYMER, ME	THYLATED	ID: 6800	2-20-0
%: 0.0000 - 0.1100	GS: LT-UNK	RC: None	NANO: NO	ROLE: Paint ingredient
HAZARDS:		AGENC	(IES) WITH WARNING	S:
None Found		No warni	ngs found on HPD Prior	rity lists
SUBSTANCE NOTES:	See Material Notes.			
ACRYLONITRILE -MET	HYL-METHACRYLATE -	VINYLIDENE CHLORIDE CO	POLYMER ID: 2503	6-25-3
%: 0.0000 - 0.1700	GS: LT-P1	RC: None	NANO: NO	ROLE: Paint ingredient
HAZARDS:		AGENC	(IES) WITH WARNING	S:
ENDOCRINE	EU - Priority I	Endocrine Disrupters	Category 1 - In Disruption Activ	vivo evidence of Endocrine vity
	Only for PVDF paint. See		ID: 6846	-50-0
			ID: 6846 NANO: NO	
2,2,4-TRIMETHYL-1,3-F	PENTANEDIOL DIISOBU	ITYRATE RC: None		ROLE: Paint ingredient
2,2,4-TRIMETHYL-1,3-F %: 0.0000 - 0.1500	PENTANEDIOL DIISOBL GS: LT-P1	ITYRATE RC: None	NANO: NO	ROLE: Paint ingredient
2,2,4-TRIMETHYL-1,3-F %: 0.0000 - 0.1500 HAZARDS:	PENTANEDIOL DIISOBL GS: LT-P1 TEDX - Poter	ITYRATE RC: None AGENC	NANO: NO	ROLE: Paint ingredient
2,2,4-TRIMETHYL-1,3-F %: 0.0000 - 0.1500 HAZARDS: ENDOCRINE SUBSTANCE NOTES: S	PENTANEDIOL DIISOBL GS: LT-P1 TEDX - Poter See Material Notes.	ITYRATE RC: None AGENC	NANO: NO ((IES) WITH WARNING Potential Endor	ROLE: Paint ingredient
2,2,4-TRIMETHYL-1,3-F %: 0.0000 - 0.1500 HAZARDS: ENDOCRINE SUBSTANCE NOTES: 3 JLATING MATERIAL #3 ntory Threshold: 1000 pp erial Notes: Rigid polyuret	PENTANEDIOL DIISOBL GS: LT-P1 TEDX - Poter See Material Notes. m hane foam. According to	ITYRATE RC: None AGENC <sup>V</sup> Initial Endocrine Disruptors %: 31.8600 Residuals Considered: Ye	NANO: NO (IES) WITH WARNING Potential Endor Potential Endor HPD IS impurities, everything is	ROLE: Paint ingredient
2,2,4-TRIMETHYL-1,3-F %: 0.0000 - 0.1500 HAZARDS: ENDOCRINE SUBSTANCE NOTES: 3 JLATING MATERIAL #3 ntory Threshold: 1000 ppr erial Notes: Rigid polyuret	PENTANEDIOL DIISOBL GS: LT-P1 TEDX - Poter See Material Notes.	ITYRATE RC: None AGENC <sup>1</sup> Initial Endocrine Disruptors %: 31.8600 Residuals Considered: Ye the manufacturer there are no	NANO: NO (IES) WITH WARNING Potential Endor Potential Endor HPD IS impurities, everything is	ROLE: Paint ingredient
2,2,4-TRIMETHYL-1,3-F %: 0.0000 - 0.1500 HAZARDS: ENDOCRINE SUBSTANCE NOTES: 3 JLATING MATERIAL #3 ntory Threshold: 1000 pp erial Notes: Rigid polyuret may still be present in the	PENTANEDIOL DIISOBL GS: LT-P1 TEDX - Poter See Material Notes.	ITYRATE RC: None AGENC <sup>1</sup> Initial Endocrine Disruptors %: 31.8600 Residuals Considered: Ye the manufacturer there are no	NANO: NO (IES) WITH WARNING Potential Endor HPD ss impurities, everything is cluded.	ROLE: Paint ingredient
2,2,4-TRIMETHYL-1,3-F %: 0.0000 - 0.1500 HAZARDS: ENDOCRINE SUBSTANCE NOTES: S ULATING MATERIAL #3 ntory Threshold: 1000 pp erial Notes: Rigid polyuret may still be present in the POLYURETHANE FOA	PENTANEDIOL DIISOBL GS: LT-P1 TEDX - Poter See Material Notes.	ITYRATE RC: None AGENCY Initial Endocrine Disruptors %: 31.8600 Residuals Considered: Ye the manufacturer there are no percentage of 6% so it was inte RC: None	NANO: NO ((IES) WITH WARNING Potential Endor HPD ss impurities, everything is cluded. ID: 9009	ROLE: Paint ingredient SS: crine Disruptor URL: consumed but the blowing agent -54-5 ROLE: Main material

1,1,1,3,3-PENTAFLUOROPROPANE			ID: 460-73-1		
%: 6.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: blowing agent	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
GLOBAL WARMING	US EPA - Glo	obal Warming Potentials	Global Warming Potential greater than 1,000		
GLOBAL WARMING IPCC - Global Warming Che		al Warming Chemicals	Chemicals with	Chemicals with Global Warming Potential	
SUBSTANCE NOTES:	pressurized with Nitroger	1			
ANT #1 tory Threshold: 1000 pp ial Notes: Butyl sealant. otected by a NDA.		%: 0.0000 - 1.0000 Residuals Considered: have been retained. The ex	Yes	D URL:	
UNDISCLOSED					
%: 50.0000 - 60.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Additive	
HAZARDS:	AGENCY(IES) WITH WARNINGS:			S:	
None Found		No wa	o warnings found on HPD Priority lists		
SUBSTANCE NOTES:	See Material Notes.				
UNDISCLOSED					
%: 20.0000 - 30.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Reagent	
HAZARDS:		AGEN	NCY(IES) WITH WARNING	S:	
None Found		No wa	arnings found on HPD Priori	ty lists	
SUBSTANCE NOTES:	See Material Notes.				
UNDISCLOSED					
	00 514 0	RC: None	NANO: NO	ROLE: Solvent	
%: 10.0000 - 20.0000	GS: BM-2				
%: 10.0000 - 20.0000 HAZARDS:	GS: BM-2	AGEN	NCY(IES) WITH WARNING	S:	

CANCER	MAK			up 3B - Evidence of carcinogenic ufficient for classification
SUBSTANCE NOTES: S	See Material Notes.			
UNDISCLOSED				
%: 1.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Reagent
HAZARDS:		AGEN	CY(IES) WITH WARNINGS	S:
None Found		No war	rnings found on HPD Priorit	ty lists
SUBSTANCE NOTES: S	See Material Notes.			
UNDISCLOSED				
%: 1.0000 - 5.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Filler
		AGEN	CY(IES) WITH WARNINGS	S:
HAZARDS:				
HAZARDS: CANCER SUBSTANCE NOTES: S	Japan - GHS See Material Notes.		Carcinogenicity	- Category 1A
CANCER	See Material Notes.		HP	- Category 1A
CANCER SUBSTANCE NOTES: S LANT #2 ntory Threshold: 1000 ppr	See Material Notes.	<b>%: 0.0000 - 1.0000</b> Residuals Considered:	HP Yes	
CANCER SUBSTANCE NOTES: S LANT #2 ntory Threshold: 1000 ppr erial Notes: Silicone based not airborne.	See Material Notes.	%: 0.0000 - 1.0000 Residuals Considered: ` ne manufacturer, limestone ar	HP Yes	<b>'D URL:</b> ulated in the final silicone mix an
CANCER SUBSTANCE NOTES: S LANT #2 ntory Threshold: 1000 ppr erial Notes: Silicone based not airborne.	See Material Notes. m d sealant. According to th	%: 0.0000 - 1.0000 Residuals Considered: ` ne manufacturer, limestone ar	HP Yes nd fumed silica are encapsi	<b>'D URL:</b> ulated in the final silicone mix an
CANCER SUBSTANCE NOTES: S LANT #2 ntory Threshold: 1000 ppr prial Notes: Silicone based not airborne. SILOXANES AND SILIC	See Material Notes. m d sealant. According to th CONES, DI-ME, ME HYD	%: 0.0000 - 1.0000 Residuals Considered: ` ne manufacturer, limestone ar ROGEN RC: None	HP Yes nd fumed silica are encaps ID: 68037	<b>PD URL:</b> ulated in the final silicone mix an 7-59-2 ROLE: Reagent
CANCER SUBSTANCE NOTES: S LANT #2 ntory Threshold: 1000 ppr prial Notes: Silicone based not airborne. SILOXANES AND SILIC %: 30.0000 - 70.0000	See Material Notes. m d sealant. According to th CONES, DI-ME, ME HYD	%: 0.0000 - 1.0000 Residuals Considered: ` ne manufacturer, limestone ar ROGEN RC: None	HP Yes nd fumed silica are encaps ID: 68037 NANO: NO	PD URL: ulated in the final silicone mix an 7-59-2 ROLE: Reagent S:
CANCER SUBSTANCE NOTES: S LANT #2 ntory Threshold: 1000 ppr erial Notes: Silicone based not airborne. SILOXANES AND SILIC %: 30.0000 - 70.0000 HAZARDS:	n d sealant. According to th CONES, DI-ME, ME HYD GS: LT-P1	%: 0.0000 - 1.0000 Residuals Considered: ` ne manufacturer, limestone ar ROGEN RC: None	HP Yes nd fumed silica are encapse ID: 68037 NANO: NO CY(IES) WITH WARNINGS	PD URL: ulated in the final silicone mix an 7-59-2 ROLE: Reagent S:
CANCER SUBSTANCE NOTES: S LANT #2 ntory Threshold: 1000 ppr prial Notes: Silicone based not airborne. SILOXANES AND SILIC %: 30.0000 - 70.0000 HAZARDS: None Found	See Material Notes. m d sealant. According to th CONES, DI-ME, ME HYD GS: LT-P1 See Material Notes.	%: 0.0000 - 1.0000 Residuals Considered: ` ne manufacturer, limestone ar ROGEN RC: None	HP Yes nd fumed silica are encapse ID: 68037 NANO: NO CY(IES) WITH WARNINGS	PD URL: ulated in the final silicone mix an 7-59-2 ROLE: Reagent S: ty lists
CANCER SUBSTANCE NOTES: S LANT #2 ntory Threshold: 1000 ppr rial Notes: Silicone based not airborne. SILOXANES AND SILIC %: 30.0000 - 70.0000 HAZARDS: None Found SUBSTANCE NOTES: S	See Material Notes. m d sealant. According to th CONES, DI-ME, ME HYD GS: LT-P1 See Material Notes.	%: 0.0000 - 1.0000 Residuals Considered: ` ne manufacturer, limestone ar ROGEN RC: None	HP Yes nd fumed silica are encapse ID: 68037 NANO: NO CY(IES) WITH WARNINGS	PD URL: ulated in the final silicone mix an 7-59-2 ROLE: Reagent S: ty lists
CANCER SUBSTANCE NOTES: S LANT #2 ntory Threshold: 1000 ppr prial Notes: Silicone based not airborne. SILOXANES AND SILIC %: 30.0000 - 70.0000 HAZARDS: None Found SUBSTANCE NOTES: S LIMESTONE; CALCIUM	See Material Notes.  m d sealant. According to th CONES, DI-ME, ME HYD GS: LT-P1  See Material Notes. I CARBONATE	%: 0.0000 - 1.0000 Residuals Considered: ` ne manufacturer, limestone ar ROGEN RC: None AGEN No war	HP Yes nd fumed silica are encaps ID: 68037 NANO: NO CY(IES) WITH WARNINGS mings found on HPD Priorit	PD URL: ulated in the final silicone mix an 7-59-2 ROLE: Reagent S: ty lists 65-3 ROLE: Colorant

SUBSTANCE NOTES: S	ee Material Notes.					
POLYDIMETHYLSILOXANES ID: 63148-62-9						
%: 10.0000 - 30.0000 GS: LT-P1 RC: None		RC: None	NANO: NO ROLE: Reagent			
HAZARDS:		AGI	AGENCY(IES) WITH WARNINGS:			
РВТ				Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans		
SUBSTANCE NOTES: S	ee Material Notes.					
2-BUTANONE, 0,0',0"-(	(METHYLSILYLIDYNE)	TRIOXIME (8CI)(9CI)	ID: 22984	I-54-9		
%: 3.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: ingredient		
HAZARDS:		AGI	ENCY(IES) WITH WARNING	S:		
None Found		No	warnings found on HPD Priori	ty lists		
SUBSTANCE NOTES: S	ee Material Notes.					
FUMED SILICA, CRYST	ALLINE-FREE		ID: 11294	15-52-5		
%: 3.0000 - 9.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Additive		
HAZARDS:		AGI	ENCY(IES) WITH WARNING	S:		
None Found	ne Found		warnings found on HPD Priori	ty lists		
SUBSTANCE NOTES: S	ee Material Notes.					
1,2-ETHANEDIAMINE, N	I-(3-(TRIMETHOXYSIL)	YL)PROPYL)-(9CI)	ID: 1760-:	24-3		
%: 0.3000 - 1.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: ingredient		
HAZARDS:		AGI	ENCY(IES) WITH WARNING	S:		
one Found			warnings found on HPD Priori	ty lists		
None Found						
None Found SUBSTANCE NOTES: S	ee Material Notes.					

	GS: BM-1	RC: None	NANO: NO	ROLE: ingredient
HAZARDS:		AGENCY	(IES) WITH WARNING	SS:
None Found		ngs found on HPD Prio	rity lists	
SUBSTANCE NOTES:	See Material Notes.			
DIBUTYLTIN DILAURA	TE		ID: 77-5	8-7
%: 0.3000 - 1.5000	GS: LT-1	RC: None	NANO: NO	ROLE: Catalyst
HAZARDS:		AGENCY	(IES) WITH WARNING	SS:
PBT	OSPAR - I concern	Priority PBTs & EDs & equivalent	PBT - Chemic	al for Priority Action
MULTIPLE	ChemSec	- SIN List	CMR - Carcino Toxicant	ogen, Mutagen &/or Reproductive
ENDOCRINE	ChemSec	- SIN List	Endocrine Dis	ruption
MULTIPLE	German F	EA - Substances Hazardous to Wa	aters Class 3 - Seve	re Hazard to Waters
REPRODUCTIVE	Japan - Gl	IS	Toxic to reproc	duction - Category 1B
SUBSTANCE NOTES:	See Material Notes.			
OCTAMETHYLCYCLO	TETRASILOXANE (D4	l)	ID: 556-	67-2
OCTAMETHYLCYCLO %: 0.1000 - 0.3000	TETRASILOXANE (D4 GS: BM-1	l) RC: None	ID: 556- NANO: NO	67-2 ROLE: reagent
		RC: None		ROLE: reagent
%: 0.1000 - 0.3000		RC: None	NANO: NO (IES) WITH WARNING	ROLE: reagent
%: 0.1000 - 0.3000 HAZARDS:	GS: BM-1 EU - R-phi	RC: None	NANO: NO (IES) WITH WARNING R62 - Possible	ROLE: reagent
%: 0.1000 - 0.3000 HAZARDS: REPRODUCTIVE	GS: BM-1 EU - R-phi	RC: None AGENCY ases ty Endocrine Disrupters	NANO: NO (IES) WITH WARNING R62 - Possible Category 1 - Ir	ROLE: reagent
%: 0.1000 - 0.3000 HAZARDS: REPRODUCTIVE ENDOCRINE	GS: BM-1 EU - R-phi EU - Priori EU - ESIS	RC: None AGENCY ases ty Endocrine Disrupters	NANO: NO (IES) WITH WARNING R62 - Possible Category 1 - Ir Disruption Acti Under PBT ev	ROLE: reagent
%: 0.1000 - 0.3000 HAZARDS: REPRODUCTIVE ENDOCRINE PBT	GS: BM-1 EU - R-phi EU - Priori EU - ESIS	RC: None AGENCY ases ty Endocrine Disrupters PBT Priority Persistent Pollutants	NANO: NO (IES) WITH WARNING R62 - Possible Category 1 - Ir Disruption Acti Under PBT ev Priority Persist Persistent, Bio	ROLE: reagent SS: risk of impaired fertility n vivo evidence of Endocrine vity aluation
%: 0.1000 - 0.3000 HAZARDS: REPRODUCTIVE ENDOCRINE PBT PBT	GS: BM-1 EU - R-phr EU - Priori EU - ESIS OR DEQ -	RC: None AGENCY Tases Ty Endocrine Disrupters PBT Priority Persistent Pollutants A DSL	NANO: NO (IES) WITH WARNING R62 - Possible Category 1 - Ir Disruption Acti Under PBT ev Priority Persist Persistent, Bio (PBiTE) to the organisms)	ROLE: reagent SS: The risk of impaired fertility The vivo evidence of Endocrine Vity The aluation The Pollutant - Tier 1 The accumulative and inherently Toxic Environment (based on aquatic The accumulative and inherently Toxic
%: 0.1000 - 0.3000 HAZARDS: REPRODUCTIVE ENDOCRINE PBT PBT PBT	GS: BM-1 EU - R-phr EU - Priori EU - ESIS OR DEQ - EC - CEP/ EC - CEP/	RC: None AGENCY Tases Ty Endocrine Disrupters PBT Priority Persistent Pollutants A DSL	NANO: NO (IES) WITH WARNING R62 - Possible Category 1 - Ir Disruption Acti Under PBT ev Priority Persist Persistent, Bio (PBiTE) to the organisms) Persistent, Bio (PBiTH) to hur	ROLE: reagent SS: The risk of impaired fertility The vivo evidence of Endocrine Vity The aluation The Pollutant - Tier 1 The accumulative and inherently Toxic Environment (based on aquatic The accumulative and inherently Toxic

MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	ChemSec - SIN List	Endocrine Disruption
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment

SUBSTANCE NOTES: See Material Notes.

# 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.



**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.

Section 5: General Notes

# MANUFACTURER INFORMATION

MANUFACTURER: Norbec Architectural Inc./Norbec Systems Inc. CONTACT NAME: Daniel Fournier

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# KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet GHS SDS Globally Harmonized System of Classi cation 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

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 Unspeci ed (insu cient data to benchmark)

**Recycled Types** 

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other

Nano Composed of nanoscale particles or nanotechnology

**Declaration Level** 

Self-declared Manufacturer's self-declaration (First Party) Independent Lab Manufacturer's self-declaration using results from an independent lab Second Party Verification by trade association or other interested party Third Party Verification by independent certifier 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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.

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

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) UNK Unknown (no data on List Translator Lists)