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

CLASSIFICATION: 07 42 43

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®-L, 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 AND A 26 GAUGE THICKNESS FOR STEEL SHEETS.

# **E** Section 1: Summary

### CONTENT INVENTORY

Threshold per

material

O Other

• 100 ppm

• 1,000 ppm

• Per GHS SDS

• Per OSHA MSDS

Based on the selected Content Inventory Threshold:

Residuals and			
impurities	Characterized	0	0
considered in	Are the Percent Weight and Role provided for all substances?	Yes	No
4 of 4 materials	Screened	Ο	Ο
<ul> <li>see Section 2:</li> <li>Material Notes</li> <li>see Section 5:</li> </ul>	Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
General Notes	Identified	0	Ο
General Notes	Are all substances disclosed by Name (Specific or Generic) and Identifier?	Yes	No

## 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 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 [ POLYMERIC MDI (PMDI) LT-UNK | RES | MUL | CAN METHYLENE BISPHENYL DIISOCYANATE (PURE MDI) LT-UNK (MAM | EYE | SKI | CAN | RES | MUL UNDISCLOSED LT-UNK PENTANE LT-P1 | AQU | MAM | MUL | PHY DIPHENYLMETHANE-2,4'- DIISOCYANATE (2,4'-MDI) LT-UNK | MAM | EYE | SKI | CAN | RES | MUL TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP) BM-U | END | PBT | MUL TRIETHYL PHOSPHATE (TEP) LT-UNK | MAM PROPYLENE GLYCOL & GLYCOL ETHERS (PGES) NoGS N,N-DIMETHYLBENZYLAMINE LT-P1 | MAM | SKI | AQU | MUL 2-ETHYLHEXANOIC ACID, POTASSIUM SALT LT-UNK UNDISCLOSED BM-4 UNDISCLOSED LT-UNK ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH \_-HYDRO-HYDROXYPOLY[ OXY(METHYL-1.2-ETHANEDIYL)] 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.....1

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. Norex® panels have been screened at 1000 ppm. Two different sealants can be used for the fabrication and/or installation of Norex® panels that is why they have been both declared under "sealant #1" and "sealant #2".

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

### **CERTIFICATIONS AND COMPLIANCE**

No certifications have been added to this HPD.

VOC Content data is not applicable for this product category.

Self-Published\* SCREENING DATE: June 22, 2017 EXPIRY DATE\*: June 22, 2020 O Third Party Verified RELEASE DATE: July 21, 2017 e HPDC website for details

Builder

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.

tory Threshold: 100 ppm		Residuals Considered: `	Yes	
ariations and ranges may	apply. Galvanized stee	and different paints are used for el represents 98,25% to 98,86% those panels has been used for	of prepainted sheets and	
IRON			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	crine Disruptor
SUBSTANCE NOTES: S	See 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	ic to Aquatic Organisms
ACUTE AQUATIC	EU - GHS (F	I-Statements)	H400 - Very tox	ic to aquatic life
CHRON AQUATIC	EU - GHS (F	H-Statements)	H410 - Very tox effects	ic to aquatic life with long lasti
ENDOCRINE	TEDX - Pote	ential Endocrine Disruptors	Potential Endoc	crine Disruptor
MULTIPLE	German FEA	A - Substances Hazardous to V	/aters Class 2 - Hazar	d to Waters
PHYSICAL HAZARD (REACTIVE)	EU - GHS (F	H-Statements)	H250 - Catches air	fire spontaneously if exposed
PHYSICAL HAZARD (REACTIVE)	EU - GHS (F	H-Statements)		ct with water releases flammat ay ignite spontaneously
SUBSTANCE NOTES: S	See Material Notes.			

TITANIUM DIOXIDE

ID: 13463-67-7

%: 0.1500 - 0.4700	GS: LT-1	RC: None	NANO: NO	ROLE: Paint ingredient
HAZARDS:		AGE	NCY(IES) WITH WARNING	S:
CANCER	US CDC - C	Occupational Carcinogens	Occupational C	arcinogen
CANCER	CA EPA - P	rop 65	Carcinogen - sp exposure route	pecific to chemical form or
CANCER	IARC		Group 2B - Pos inhaled from oc	ssibly carcinogenic to humans - ccupational sources
ENDOCRINE	TEDX - Pot	ential Endocrine Disruptors	Potential Endoc	crine Disruptor
CANCER	МАК		Carcinogen Gro effects but not s value	oup 3A - Evidence of carcinogenic sufficient to establish MAK/BAT
SUBSTANCE NOTES:	See Material Notes.			
TERLON			ID: 63148	8-69-6
%: 0.1000 - 0.1300	GS: NoGS	RC: None	NANO: NO	ROLE: Paint ingredient
HAZARDS:		AGE	NCY(IES) WITH WARNING	S:
None Found		No w	varnings found on HPD Priori	ity 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	varnings found on HPD Priori	ity lists
SUBSTANCE NOTES: /	Approximation for "acry	lic resin".		
STRONTIUM CHROMA	ΤE		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	f Swallowed

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 Ma	terial Notes.	

CHROMIUM

ID: 7440-47-3

%: 0.0000 - 0.6400	GS: LT-P1	RC: None	NANO: NO	ROLE: alloying element
HAZARDS:		AGENCY(IE	ES) WITH WARNINGS	S:
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 W	aters 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	ID: 7429-90-5 NANO: NO ROLE: Impurity/Residua
%: Impurity/Residual		
		NANO: NO ROLE: Impurity/Residua
HAZARDS:	AGENC	NANO: NO ROLE: Impurity/Residua Y(IES) WITH WARNINGS: Asthmagen (ARs) - sensitizer-induced - inhalable
HAZARDS: RESPIRATORY	AGENC <sup>V</sup> AOEC - Asthmagens	NANO: NO ROLE: Impurity/Residua Y(IES) WITH WARNINGS: Asthmagen (ARs) - sensitizer-induced - inhalable forms only
HAZARDS: RESPIRATORY ENDOCRINE PHYSICAL HAZARD	AGENC <sup>N</sup> AOEC - Asthmagens TEDX - Potential Endocrine Disruptors	NANO: NO ROLE: Impurity/Residual Y(IES) WITH WARNINGS: Asthmagen (ARs) - sensitizer-induced - inhalable 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:		AGENC	Y(IES) WITH WARNING	SS:
MAMMALIAN	EU - R-ph	nrases	R23 - Toxic by	Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-ph	nrases	R25 - Toxic if S	Swallowed
MAMMALIAN	EU - R-ph	ırases	R26 - Very To	kic by Inhalation
CANCER	EU - R-ph	nrases	R45 - May cau	se cancer
ORGAN TOXICANT	EU - R-ph	nrases	R48: Danger o prolonged exp	f serious damage to health by osure.
ACUTE AQUATIC	EU - R-ph	nrases	R50 - Very To	kic to Aquatic Organisms
REPRODUCTIVE	EU - R-ph	nrases	R62 - Possible	risk of impaired fertility
DEVELOPMENTAL	EU - R-ph	nrases	R63 - Possible	risk of harm to the unborn child
CANCER	US EPA -	IRIS Carcinogens	(1986) Group I	31 - Probable human Carcinogen
CANCER	IARC		Group 1 - Age	nt is Carcinogenic to humans
CANCER	CA EPA -	Prop 65	Carcinogen	
DEVELOPMENTAL	CA EPA -	Prop 65	Developmenta	I toxicity
РВТ	US EPA -	Priority PBTs (NWMP)	Priority PBT	
РВТ	WA DoE ·	- PBT	PBT	
GENE MUTATION	EU - R-ph	nrases	R68 - May cau	se irreversible effects
REPRODUCTIVE	CA EPA -	Prop 65	Reproductive	Foxicity - 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
PBT	OSPAR - concern	Priority PBTs & EDs & equivalent	t PBT - Chemica	al for Priority Action
РВТ	OR DEQ	- Priority Persistent Pollutants	Priority Persist	ent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS	6 (H-Statements)	H400 - Very to	xic to aquatic life
CHRON AQUATIC	EU - GHS	6 (H-Statements)	H410 - Very to effects	xic to aquatic life with long lasting
MAMMALIAN	EU - GHS	6 (H-Statements)	H330 - Fatal if	inhaled
GENE MUTATION	EU - GHS	S (H-Statements)	H341 - Suspec	ted of causing genetic defects
CANCER	EU - GHS	S (H-Statements)	H350 - May ca	use 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	NCY(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

DEVELOPMENTALG&L - Neurotoxic ChemicalsDevelopmental NeurotoxicantCANCERUS EPA - IRIS Carcinogens(1986) Group B2 - Probable human CarcinogenCANCERIARCGroup 2a - Agent is probably Carcinogenic to humansCANCERIARCGroup 2b - Dossibly carcinogenic to humansCANCERCA EPA - Prop 85CarcinogenDEVELOPMENTALCA EPA - Prop 85Developmental toxicityPBTUS EPA - Prop 85Developmental toxicityPBTUS EPA - Prop 85Reproductive Toxicity - FemaleREPRODUCTIVECA EPA - Prop 85Reproductive Toxicity - MaleCANCERUS NIH - Report on CarcinogensResonably Antidipated to be Human CarcinogenPBTUS EPA - Priority PBTs (PPT)Priority PBTPBTUS EPA - Prontis PETS (PPT)Priority PBTPBTUS EPA - Prontis PETS (PPT)Priority PBTPBTUS EPA - Prontis PETS & EDs & equivalentPBT - Chemical for Pronty Action concernPBTOR DEQ - Prontity PETS & EDs & equivalentPBT - Chemical for Pronty Action concernPBTOR DEQ - Prontity PETS & EDs & equivalentCaler Evidence of Adverse Effects - Reproductive footslyACUTE AQUATICEU - GHS (H-Statements)H400 - Vury toxic to aquastic lifeCHRON AQUATICEU - GHS (H-Statements)H400 - Vury toxic to aquastic lifeDEVELOPMENTALEU - GHS (H-Statements)H30201 - May damage the uribon rolid. Stapper uribit for damagen fortillyREPRODUCTIVEEU - GHS (H-Statements)H30201 - May damage the uribon rolid. Stapper uribit for damagen	REPRODUCTIVE	EU - R-phrases	R62 - Possible risk of impaired fertility
CANCER         IARC         Group 2a - Agent is probably Carcinogenic to humans           CANCER         IARC         Group 2a - Possibly carcinogenic to humans           CANCER         CA EPA - Prop 65         Carcinogen           DEVELOPMENTAL         CA EPA - Prop 65         Developmental toxicity           PBT         US EPA - Prop 65         Reproductive Toxicity - Female           REPRODUCTIVE         CA EPA - Prop 65         Reproductive Toxicity - Female           REPRODUCTIVE         CA EPA - Prop 65         Reproductive Toxicity - Male           CANCER         US NH - Report on Carcinogens         Reasonably Anticipated to be Human Carcinogen           PBT         US EPA - Prop 65         Reproductive Toxicity - Male           CANCER         US NH - Report on Carcinogens         Reasonably Anticipated to be Human Carcinogen           PBT         US EPA - Toxics Release Inventory PBTs         PBT           PBT         US EPA - Priority PBTs & EDs & equivalent         PBT - Chemical for Priority Action concern           PBT         OR DEQ - Priority Persistent Pollutants         Priority Persistent Pollutant - Tier 1           DEVELOPMENTAL         US NH - Reproductive & Developmental Monographs         Clear Evidence of Adverse Effects - Developmental Monographs           ACUTE AQUATIC         EU - GHS (H-Statements)         H400 - Very toxic to aquatic life	DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
Numans         Numans           CANCER         IARC         Group 2b - Possibly carcinogenic to humans           CANCER         CA EPA - Prop 65         Carcinogen           DEVELOPMENTAL         CA EPA - Prop 65         Developmental toxicity           PBT         US EPA - Priority PBT (NWMP)         Priority PBT           PBT         WA DoE - PBT         PBT           REPRODUCTIVE         CA EPA - Prop 65         Reproductive Toxicity - Female           REPRODUCTIVE         CA EPA - Prop 65         Reproductive Toxicity - Malo           CANCER         US NIH - Report on Carcinogens         Reasonably Anticipated to be Human Carcinogen           PBT         US EPA - Priority PBTs (PPT)         Priority PBT           PBT         US EPA - Priority PBTs (PPT)         Priority PBT           PBT         US EPA - Priority PBTs & EDs & equivalent         PBT - Chemical for Priority Action           PBT         OR DEQ - Priority PBTs & EDs & equivalent         PBT - Chemical for Priority Action           PBT         OR DEQ - Priority PBTs & EDs & equivalent         PET - Chemical for Priority Action           PBT         OR DEQ - Priority PBTs & EDs & equivalent         Clear Evidence of Adverse Effects - Developmental           DEVELOPMENTAL         US NIH - Reproductive & Developmental         Clear Evidence of Adverse Effects - Reproduc	CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER     CA EPA - Prop 65     Carcinogen       DEVELOPMENTAL     CA EPA - Prop 65     Developmental toxicity       PBT     US EPA - Prop 65     Developmental toxicity       PBT     US EPA - Prop 65     Reproductive Toxicity - Female       REPRODUCTIVE     CA EPA - Prop 65     Reproductive Toxicity - Female       REPRODUCTIVE     CA EPA - Prop 65     Reproductive Toxicity - Maile       CANCER     US NIH - Report on Carcinogens     Reasonably Anticipated to be Human Carcinogen       PBT     US EPA - Prop 10     Priority PBT       PBT     US EPA - Prop 65     Reproductive Toxicity - Maile       CANCER     US NIH - Report on Carcinogens     Reasonably Anticipated to be Human Carcinogen       PBT     US EPA - Priority PBTs (PPT)     Priority PBT       PBT     US EPA - Priority PBTs & EDs & equivalent     PBT - Chemical for Priority Action concern       PBT     OR DEQ - Priority PBTs & EDs & equivalent     PBT - Chemical for Priority Action concern       PBT     OR DEQ - Priority Persistent Pollutants     Priority Persistent Pollutant - Tier 1       DEVELOPMENTAL     US NIH - Reproductive & Developmental     Clear Evidence of Adverse Effects - Developmental       ACUTE AQUATIC     EU - GHS (H-Statements)     H400 - Very toxic to aquastic life       CHRON AQUATIC     EU - GHS (H-Statements)     H360D - May damage ther unborn child.	CANCER	IARC	
DEVELOPMENTAL         CA EPA - Prop 65         Developmental toxicity           PBT         US EPA - Priority PBTs (NWMP)         Priority PBT           PBT         WA DoE - PBT         PBT           REPRODUCTIVE         CA EPA - Prop 65         Reproductive Toxicity - Female           REPRODUCTIVE         CA EPA - Prop 65         Reproductive Toxicity - Male           CANCER         US NIH - Report on Carcinogens         Reasonably Anticipated to be Human Carcinogen           PBT         US EPA - Priority PBTs (PPT)         Priority PBT           PBT         US EPA - Priority PBTs (PPT)         Priority PBT           PBT         US EPA - Toxics Release Inventory PBTs         PBT           PBT         OSPAR - Priority PBTs & EDs & equivalent         PBT - Chemical for Priority Action           PBT         OR DEQ - Priority Persistent Pollutants         Priority Persistent Pollutant - Tier 1           DEVELOPMENTAL         US NIH - Reproductive & Developmental         Clear Evidence of Adverse Effects - Developmental Toxicity           REPRODUCTIVE         US NIH - Reproductive & Developmental         Clear Evidence of Adverse Effects - Reproductive Monographs           ACUTE AQUATIC         EU - GHS (H-Statements)         H410 - Very toxic to aquatic life           CHRON AQUATIC         EU - GHS (H-Statements)         H300D1 - May damage fertility. May damage the unb	CANCER	IARC	Group 2b - Possibly carcinogenic to humans
PBT     US EPA - Priority PBTs (NWMP)     Priority PBT       PBT     WA DoE - PBT     PBT       REPRODUCTIVE     CA EPA - Prop 65     Reproductive Toxicity - Female       REPRODUCTIVE     CA EPA - Prop 65     Reproductive Toxicity - Male       CANCER     US NIH - Report on Carcinogens     Reasonably Anticipated to be Human Carcinogen       PBT     US EPA - Priority PBTs (PPT)     Priority PBT       PBT     US EPA - Priority PBTs (PPT)     PBT       PBT     US EPA - Toxics Release Inventory PBTs     PBT       PBT     US EPA - Priority PBTs & EDs & equivalent     PBT - Chemical for Priority Action       PBT     OS PAR - Priority PBTs & EDs & equivalent     PBT - Chemical for Priority Action       PBT     OR DEQ - Priority PBTs & EDs & equivalent     PBT - Chemical for Priority Action       DEVELOPMENTAL     US NIH - Reproductive & Developmental     Clear Evidence of Adverse Effects - Developmental Toxicity       REPRODUCTIVE     US NIH - Reproductive & Developmental     Clear Evidence of Adverse Effects - Reproductive Monographs       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)     H3607 - May damage fertility. May damage the unborn child. Suspected of damaging fertility <td< td=""><td>CANCER</td><td>CA EPA - Prop 65</td><td>Carcinogen</td></td<>	CANCER	CA EPA - Prop 65	Carcinogen
PBT     WA DoE - PBT     PBT       REPRODUCTIVE     CA EPA - Prop 65     Reproductive Toxicity - Female       REPRODUCTIVE     CA EPA - Prop 65     Reproductive Toxicity - Male       CANCER     US NIH - Report on Carcinogens     Reasonably Anticipated to be Human Carcinogen       PBT     US EPA - Priority PBTs (PPT)     Priority PBT       PBT     US EPA - Toxics Release Inventory PBTs     PBT       PBT     US EPA - Toxics Release Inventory PBTs     PBT       PBT     OSPAR - Priority PBTs & EDs & equivalent     PBT - Chemical for Priority Action       Concern     OSPAR - Priority PBTs & EDs & equivalent     PBT - Chemical for Priority Action       PBT     OR DEQ - Priority Persistent Pollutants     Priority Persistent Pollutant - Tier 1       DEVELOPMENTAL     US NIH - Reproductive & Developmental     Clear Evidence of Adverse Effects - Developmental Monographs       REPRODUCTIVE     US NIH - Reproductive & Developmental     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)     H360D' - May damage the unborn child.       Suspected of damaging fertility. May damage the unborn child.     Suspected of damaging fertility. May damage the unborn child.       DEVELOPMENTAL     EU - GHS (H-Statements)     H362 - May cause harm to breast-fed children <t< td=""><td>DEVELOPMENTAL</td><td>CA EPA - Prop 65</td><td>Developmental toxicity</td></t<>	DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
REPRODUCTIVE         CA EPA - Prop 65         Reproductive Toxicity - Female           REPRODUCTIVE         CA EPA - Prop 65         Reproductive Toxicity - Male           CANCER         US NIH - Report on Carcinogens         Reasonably Anticipated to be Human Carcinogen           PBT         US EPA - Priority PBTs (PPT)         Priority PBT           PBT         US EPA - Priority PBTs & EDs & equivalent         PBT           PBT         OSPAR - Priority PBTs & EDs & equivalent         PBT - Chemical for Priority Action           PBT         OSPAR - Priority PBTs & EDs & equivalent         PBT - Chemical for Priority Action           PBT         OSPAR - Priority PBTs & EDs & equivalent         PBT - Chemical for Priority Action           DEVELOPMENTAL         US NIH - Reproductive & Developmental         Clear Evidence of Adverse Effects - Developmental Monographs           REPRODUCTIVE         US NIH - Reproductive & Developmental         Clear Evidence of Adverse Effects - Reproductive Monographs           ACUTE AQUATIC         EU - GHS (H-Statements)         H400 - Very toxic to aquatic life           CHRON AQUATIC         EU - GHS (H-Statements)         H360Df - May damage the unborn child.           DEVELOPMENTAL         EU - GHS (H-Statements)         H360Df - May damage the unborn child.           DEVELOPMENTAL         EU - GHS (H-Statements)         H360Df - May damage fertility. May damage the unborn	РВТ	US EPA - Priority PBTs (NWMP)	Priority PBT
REPRODUCTIVE         CA EPA - Prop 65         Reproductive Toxicity - Male           CANCER         US NIH - Report on Carcinogens         Reasonably Anticipated to be Human Carcinogen           PBT         US EPA - Priority PBTs (PPT)         Priority PBT           PBT         US EPA - Toxics Release Inventory PBTs         PBT           PBT         OSPAR - Priority PBTs & EDs & equivalent concern         PBT - Chemical for Priority Action           PBT         OR DEQ - Priority Persistent Pollutants         Priority Persistent Pollutant - Tier 1           DEVELOPMENTAL         US NIH - Reproductive & Developmental Monographs         Clear Evidence of Adverse Effects - Developmental Toxicity           REPRODUCTIVE         US NIH - Reproductive & Developmental Monographs         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.           DEVELOPMENTAL         EU - GHS (H-Statements)         H360Df - May damage the unborn child.           DEVELOPMENTAL         EU - GHS (H-Statements)         H362 - May cause harm to breast-fed children           DEVELOPMENTAL         EU - GHS (H-Statements)	РВТ	WA DoE - PBT	РВТ
CANCER       US NIH - Report on Carcinogens       Reasonably Anticipated to be Human Carcinogen         PBT       US EPA - Priority PBTs (PPT)       Priority PBT         PBT       US EPA - Toxics Release Inventory PBTs       PBT         PBT       OSPAR - Priority PBTs & EDs & equivalent       PBT - Chemical for Priority Action         PBT       OSPAR - Priority PBTs & EDs & equivalent       PBT - Chemical for Priority Action         PBT       OR DEQ - Priority Persistent Pollutants       Priority Persistent Pollutant - Tier 1         DEVELOPMENTAL       US NIH - Reproductive & Developmental       Clear Evidence of Adverse Effects - Developmental Toxicity         REPRODUCTIVE       US NIH - Reproductive & Developmental       Clear Evidence of Adverse Effects - Reproductive Monographs         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)       H360PT - May damage the unborn child. Suspected of damaging fertility. May damage the unborn child         DEVELOPMENTAL       EU - GHS (H-Statements)       H360PT - May cause harm to breast-fed children         REPRODUCTIVE       EU - GHS (H-Statements)       H362 - May cause harm to breast-fed children         REPRODUCTIVE       EU - GHS (H-Statements)	REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
PBT     US EPA - Priority PBTs (PPT)     Priority PBT       PBT     US EPA - Toxics Release Inventory PBTs     PBT       PBT     OSPAR - Priority PBTs & EDs & equivalent concorem     PBT - Chemical for Priority Action       PBT     OR DEQ - Priority Persistent Pollutants     Priority Persistent Pollutant - Tier 1       DEVELOPMENTAL     US NIH - Reproductive & Developmental Monographs     Clear Evidence of Adverse Effects - Developmental Toxicity       REPRODUCTIVE     US NIH - Reproductive & Developmental Monographs     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)     H360D1 - 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)     H360FD - May cause harm to breast-fed children       REPRODUCTIVE     EU - GHS (H-Statements)     H362 - May cause harm to breast-fed children       REPRODUCTIVE     EU - REACH Annex XVII CMRs     Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans       MULTIPLE     ChemSec - SIN List     CMR - Carcinogen, Mutagen &/or Reproductive Toxicant <td>REPRODUCTIVE</td> <td>CA EPA - Prop 65</td> <td>Reproductive Toxicity - Male</td>	REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
PBT       US EPA - Toxics Release Inventory PBTs       PBT         PBT       OSPAR - Priority PBTs & EDs & equivalent concern       PBT - Chemical for Priority Action         PBT       OR DEQ - Priority PBTs & EDs & equivalent concern       PBT - Chemical for Priority Action         PBT       OR DEQ - Priority Persistent Pollutants       Priority Persistent Pollutant - Tier 1         DEVELOPMENTAL       US NIH - Reproductive & Developmental Monographs       Clear Evidence of Adverse Effects - Developmental Toxicity         REPRODUCTIVE       US NIH - Reproductive & Developmental Monographs       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)       H360FD - May damage fertility. May damage the unborn child.         DEVELOPMENTAL       EU - GHS (H-Statements)       H362 - May cause harm to breast-fed children         REPRODUCTIVE       EU - GHS (H-Statements)       H362 - May cause harm to breast-fed children	CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT       OSPAR - Priority PBTs & EDs & equivalent concern       PBT - Chemical for Priority Action         PBT       OR DEQ - Priority Persistent Pollutants       Priority Persistent Pollutant - Tier 1         DEVELOPMENTAL       US NIH - Reproductive & Developmental Monographs       Clear Evidence of Adverse Effects - Developmental Toxicity         REPRODUCTIVE       US NIH - Reproductive & Developmental Monographs       Clear Evidence of Adverse Effects - Reproductive Monographs         ACUTE AQUATIC       EU - GHS (H-Statements)       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)       H360FD - May damage fertility. May damage the unborn child.         DEVELOPMENTAL       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 - REACH Annex XVII CMRs       Toxic to Rep	PBT	US EPA - Priority PBTs (PPT)	Priority PBT
concern         PBT       OR DEQ - Priority Persistent Pollutants       Priority Persistent Pollutant - Tier 1         DEVELOPMENTAL       US NIH - Reproductive & Developmental       Clear Evidence of Adverse Effects - Developmental Toxicity         REPRODUCTIVE       US NIH - Reproductive & Developmental Monographs       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)       H360PD - May damage fertility. May damage the unborn child         DEVELOPMENTAL       EU - GHS (H-Statements)       H360PD - May cause harm to breast-fed children         REPRODUCTIVE       EU - GHS (H-Statements)       H362 - May cause harm to breast-fed children         REPRODUCTIVE       EU - REACH Annex XVII CMRs       Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans         MULTIPLE       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	РВТ	US EPA - Toxics Release Inventory PBTs	РВТ
DEVELOPMENTAL       US NIH - Reproductive & Developmental Monographs       Clear Evidence of Adverse Effects - Developmental Toxicity         REPRODUCTIVE       US NIH - Reproductive & Developmental Monographs       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)       H360FD - May damage fertility. May damage the unborn child         DEVELOPMENTAL       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 - REACH Annex XVII CMRs       Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans         MULTIPLE       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	PBT		PBT - Chemical for Priority Action
MonographsDevelopmental ToxicityREPRODUCTIVEUS NIH - Reproductive & Developmental MonographsClear Evidence of Adverse Effects - Reproductive ToxicityACUTE AQUATICEU - GHS (H-Statements)H400 - Very toxic to aquatic lifeCHRON AQUATICEU - GHS (H-Statements)H410 - Very toxic to aquatic life with long lasting effectsDEVELOPMENTALEU - GHS (H-Statements)H360Df - May damage the unborn child. Suspected of damaging fertilityREPRODUCTIVEEU - GHS (H-Statements)H360FD - May damage fertility. May damage the unborn childDEVELOPMENTALEU - GHS (H-Statements)H362 - May cause harm to breast-fed childrenREPRODUCTIVEEU - GHS (H-Statements)Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humansMULTIPLEChemSec - SIN ListCMR - Carcinogen, Mutagen &/or Reproductive Toxicant	РВТ	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
MonographsToxicityACUTE AQUATICEU - GHS (H-Statements)H400 - Very toxic to aquatic lifeCHRON AQUATICEU - GHS (H-Statements)H410 - Very toxic to aquatic life with long lasting effectsDEVELOPMENTALEU - GHS (H-Statements)H360Df - May damage the unborn child. Suspected of damaging fertilityREPRODUCTIVEEU - GHS (H-Statements)H360FD - May damage fertility. May damage the unborn childDEVELOPMENTALEU - GHS (H-Statements)H360FD - May damage fertility. May damage the unborn childDEVELOPMENTALEU - GHS (H-Statements)H362 - May cause harm to breast-fed childrenREPRODUCTIVEEU - GHS (H-Statements)H362 - May cause harm to breast-fed childrenREPRODUCTIVEEU - REACH Annex XVII CMRsToxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humansMULTIPLEChemSec - SIN ListCMR - Carcinogen, Mutagen &/or Reproductive Toxicant	DEVELOPMENTAL		
CHRON AQUATICEU - GHS (H-Statements)H410 - Very toxic to aquatic life with long lasting effectsDEVELOPMENTALEU - GHS (H-Statements)H360Df - May damage the unborn child. Suspected of damaging fertilityREPRODUCTIVEEU - GHS (H-Statements)H360FD - May damage fertility. May damage the unborn childDEVELOPMENTALEU - GHS (H-Statements)H360FD - May damage fertility. May damage the unborn childDEVELOPMENTALEU - GHS (H-Statements)H362 - May cause harm to breast-fed childrenREPRODUCTIVEEU - GHS (H-Statements)H362 - May cause harm to breast-fed childrenREPRODUCTIVEEU - REACH Annex XVII CMRsToxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humansMULTIPLEChemSec - SIN ListCMR - Carcinogen, Mutagen &/or Reproductive Toxicant	REPRODUCTIVE		
effects     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 - GHS (H-Statements)       H362 - May cause harm to breast-fed children       REPRODUCTIVE     EU - REACH Annex XVII CMRs       Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans       MULTIPLE     ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
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 - GHS (H-Statements)       H362 - May cause harm to breast-fed children         REPRODUCTIVE       EU - REACH Annex XVII CMRs       Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans         MULTIPLE       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	CHRON AQUATIC	EU - GHS (H-Statements)	
DEVELOPMENTAL       EU - GHS (H-Statements)       H362 - May cause harm to breast-fed children         REPRODUCTIVE       EU - REACH Annex XVII CMRs       Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans         MULTIPLE       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	DEVELOPMENTAL	EU - GHS (H-Statements)	
REPRODUCTIVE       EU - REACH Annex XVII CMRs       Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans         MULTIPLE       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	REPRODUCTIVE	EU - GHS (H-Statements)	
MULTIPLE       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
Toxicant	REPRODUCTIVE	EU - REACH Annex XVII CMRs	known to impair fertility or cause Developmental
ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor	MULTIPLE	ChemSec - SIN List	
	ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

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: 7440-3	
%: Impurity/Residual	GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual
HAZARDS:		AGE	NCY(IES) WITH WARNINGS	S:
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 effects
CANCER	МАК		Carcinogen Gro carcinogenic for	up 2 - Considered to be man
SUBSTANCE NOTES: 0 0.004w% max.	Galvanizing may add trac	e amounts of aluminum at	0.055w% max, antimony at 0	0.011w% max and lead at
0.004w% max.		e amounts of aluminum at		
0.004w% max.				
0.004w% max.	ORIDE (1,1-DIFLUORO	ETHENE HOMOPOLYME	R) ID: 24937	-79-9 ROLE: Paint ingredient
0.004w% max. POLYVINYLIDENE FLU %: 0.0000 - 0.4000	ORIDE (1,1-DIFLUORO	ETHENE HOMOPOLYMEI RC: None AGE	R) ID: 24937 NANO: NO	-79-9 ROLE: Paint ingredient
0.004w% max. POLYVINYLIDENE FLU %: 0.0000 - 0.4000 HAZARDS: None Found	ORIDE (1,1-DIFLUORO	ETHENE HOMOPOLYMEI RC: None AGE No w	R) ID: 24937 NANO: NO NCY(IES) WITH WARNINGS	-79-9 ROLE: Paint ingredient
0.004w% max. POLYVINYLIDENE FLU %: 0.0000 - 0.4000 HAZARDS: None Found	ORIDE (1,1-DIFLUORO	ETHENE HOMOPOLYMEI RC: None AGE No w	R) ID: 24937 NANO: NO NCY(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-DIFLUORO	ETHENE HOMOPOLYMEI RC: None AGE No w	R) ID: 24937 NANO: NO NCY(IES) WITH WARNINGS arnings found on HPD Priorit	-79-9 ROLE: Paint ingredient S: ty lists

SUBSTANCE NOTES:	See Material Notes.			
FORMALDEHYDE, ME	LAMINE POLYMER, MET	HYLATED	ID: 68002-	-20-0
%: 0.0000 - 0.1100	GS: LT-UNK	RC: None	NANO: NO	ROLE: Paint ingredient
HAZARDS:		AGE	NCY(IES) WITH WARNINGS	::
None Found		No w	arnings found on HPD Priorit	y lists
SUBSTANCE NOTES:	See Material Notes.			
ACRYLONITRILE -MET			COPOLYMER ID: 25036-	-25-3
%: 0.0000 - 0.1700	GS: LT-P1	RC: None	NANO: NO	ROLE: Paint ingredient
HAZARDS:		AGE	NCY(IES) WITH WARNINGS	:
ENDOCRINE	EU - Priority Endocrine Disrupters		Category 1 - In vivo evidence of Endocrine Disruption Activity	
SUBSTANCE NOTES:	Only for PVDF paint. See I	Material Notes.	Disruption Activit	ty
	Only for PVDF paint. See I PENTANEDIOL DIISOBUT GS: LT-P1		ID: 6846-5 NANO: NO	50-0
2,2,4-TRIMETHYL-1,3-I	PENTANEDIOL DIISOBUT	TYRATE RC: None	ID: 6846-5	i0-0 ROLE: Paint ingredient
2,2,4-TRIMETHYL-1,3-1 %: 0.0000 - 0.1500	PENTANEDIOL DIISOBUT GS: LT-P1	TYRATE RC: None	ID: 6846-5 NANO: NO	50-0 ROLE: Paint ingredient
2,2,4-TRIMETHYL-1,3-I %: 0.0000 - 0.1500 HAZARDS:	PENTANEDIOL DIISOBUT GS: LT-P1 TEDX - Potent	TYRATE RC: None AGE	ID: 6846-5 NANO: NO NCY(IES) WITH WARNINGS	50-0 ROLE: Paint ingredien
2,2,4-TRIMETHYL-1,3-I %: 0.0000 - 0.1500 HAZARDS: ENDOCRINE SUBSTANCE NOTES:	PENTANEDIOL DIISOBUT GS: LT-P1 TEDX - Potent See Material Notes.	TYRATE RC: None AGE ial Endocrine Disruptors %: 29.2600 - 31.0000 Residuals Considered: Ye	ID: 6846-5 NANO: NO NCY(IES) WITH WARNINGS Potential Endocr	io-0 ROLE: Paint ingredient
2,2,4-TRIMETHYL-1,3-I %: 0.0000 - 0.1500 HAZARDS: ENDOCRINE SUBSTANCE NOTES: A JLATING MATERIAL htory Threshold: 1000 pp rial Notes: Polyisocyanu	PENTANEDIOL DIISOBUT GS: LT-P1 TEDX - Potent See Material Notes. m rate foam. Ranges are give	TYRATE RC: None AGE ial Endocrine Disruptors %: 29.2600 - 31.0000 Residuals Considered: Ye	ID: 6846-5 NANO: NO NCY(IES) WITH WARNINGS Potential Endocr HPD UF	50-0 ROLE: Paint ingredient ine Disruptor RL: gredients are not
2,2,4-TRIMETHYL-1,3-I %: 0.0000 - 0.1500 HAZARDS: ENDOCRINE SUBSTANCE NOTES: I JLATING MATERIAL htory Threshold: 1000 pp trial Notes: Polyisocyanuto osed.	PENTANEDIOL DIISOBUT GS: LT-P1 TEDX - Potent See Material Notes. m rate foam. Ranges are give	TYRATE RC: None AGE ial Endocrine Disruptors %: 29.2600 - 31.0000 Residuals Considered: Ye	ID: 6846-5 NANO: NO NCY(IES) WITH WARNINGS Potential Endocr HPD UF S ta. Names of confidential ing	50-0 ROLE: Paint ingredient ine Disruptor RL: gredients are not
2,2,4-TRIMETHYL-1,3-I %: 0.0000 - 0.1500 HAZARDS: ENDOCRINE SUBSTANCE NOTES: JLATING MATERIAL ntory Threshold: 1000 pp brial Notes: Polyisocyanur osed. POLYMERIC MDI (PME	PENTANEDIOL DIISOBUT GS: LT-P1 TEDX - Potent See Material Notes. m rate foam. Ranges are give	TYRATE         RC: None         AGE         ial Endocrine Disruptors         %: 29.2600 - 31.0000         Residuals Considered: Ye         en to protect proprietary data         RC: None	ID: 6846-5 NANO: NO NCY(IES) WITH WARNINGS Potential Endocr HPD UF s ta. Names of confidential ing ID: 9016-8	50-0 ROLE: Paint ingredient ine Disruptor RL: gredients are not 37-9 ROLE: Isocyanate

RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	МАК	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	МАК	Sensitizing Substance Sah - Danger of airway & skin sensitization
SUBSTANCE NOTES: Se	ee Material Notes.	
METHYLENE BISPHENY	L DIISOCYANATE (PURE MDI)	ID: 101-68-8
%: 18.8000 - 25.1000	GS: LT-UNK RC: None	NANO: NO ROLE: Isocyanate
HAZARDS:	AGENC	CY(IES) WITH WARNINGS:
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
RESPIRATORY	EU - R-phrases	R42 - May cause sensitization by inhalation
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	МАК	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	МАК	Sensitizing Substance Sah - Danger of airway & skin sensitization

%: 18.4200 - 24.5600	GS: LT-UNK	RC: None	NANO: NO	ROLE: polyol blend + catalyst	
HAZARDS:		AGE	NCY(IES) WITH WARNING	S:	
None Found		No w	arnings found on HPD Priori	ty lists	
SUBSTANCE NOTES: S	See Material Notes.				
PENTANE			ID: 109-60	6-0	
%: 5.8000	GS: LT-P1	RC: None	NANO: NO	ROLE: blowing agent	
HAZARDS:		AGE	NCY(IES) WITH WARNING	5:	
ACUTE AQUATIC	EU - R-phrases		R51 - Toxic to A	quatic Organisms	
CHRON AQUATIC	EU - GHS (H-Sta	tements)	H411 - Toxic to	aquatic life with long lasting effe	
MAMMALIAN	EU - GHS (H-Sta	tements)	H304 - May be f airways	H304 - May be fatal if swallowed and enters airways	
MULTIPLE	German FEA - Se	ubstances Hazardous t	o Waters Class 2 - Hazard	Class 2 - Hazard to Waters	
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Sta	tements)	H225 - Highly fla	ammable liquid and vapour	
SUBSTANCE NOTES: S	See Material Notes.				
DIPHENYLMETHANE-2	,4'- DIISOCYANATE (2,4'-M	IDI )	ID: 5873-	54-1	
DIPHENYLMETHANE-2 %: 3.2000 - 6.4000	,4'- DIISOCYANATE (2,4'-M GS: LT-UNK	IDI) RC: None	ID: 5873-1 NANO: NO	54-1 ROLE: Isocyanate	
		RC: None		ROLE: Isocyanate	
%: 3.2000 - 6.4000		RC: None	NANO: NO NCY(IES) WITH WARNINGS	ROLE: Isocyanate	
%: 3.2000 - 6.4000 HAZARDS:	GS: LT-UNK	RC: None	NANO: NO NCY(IES) WITH WARNINGS R20 - Harmful b	ROLE: Isocyanate S: y Inhalation (gas or vapor or	
%: 3.2000 - 6.4000 HAZARDS: MAMMALIAN	GS: LT-UNK EU - R-phrases	RC: None	NANO: NO NCY(IES) WITH WARNINGS R20 - Harmful b dust/mist)	ROLE: Isocyanate S: y Inhalation (gas or vapor or o eyes	
%: 3.2000 - 6.4000 HAZARDS: MAMMALIAN EYE IRRITATION	GS: LT-UNK EU - R-phrases EU - R-phrases	RC: None	NANO: NO NCY(IES) WITH WARNINGS R20 - Harmful b dust/mist) R36 - Irritating to R38 - Irritating to	ROLE: Isocyanate S: y Inhalation (gas or vapor or o eyes	
%: 3.2000 - 6.4000 HAZARDS: MAMMALIAN EYE IRRITATION SKIN IRRITATION	GS: LT-UNK EU - R-phrases EU - R-phrases EU - R-phrases	RC: None	NANO: NO NCY(IES) WITH WARNINGS R20 - Harmful b dust/mist) R36 - Irritating to R38 - Irritating to R40 - Limited Ev	ROLE: Isocyanate S: y Inhalation (gas or vapor or o eyes o skin	

ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
SUBSTANCE NOTES: See Ma	terial Notes.	

TRIS(1-CHLORO-2-PR	TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP)		ID: 13674-84-5	
%: 3.0000 - 6.0000	GS: BM-U	RC: None	NANO: NO	ROLE: polyol blend
HAZARDS:		AGE	NCY(IES) WITH WARNING	S:

HAZARDS:	AGENCY(IES) WITH WARNINGS:				AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor				
PBT	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport				
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment				

SUBSTANCE NOTES: See Material Notes.

TRIETHYL PHOSPHAT	RIETHYL PHOSPHATE (TEP)			ID: 78-40-0		
%: 1.5000 - 3.0000	00 GS: LT-UNK RC: None		NANO: NO	ROLE: polyol blend		
HAZARDS: A			ENCY(IES) WITH WARNINGS	6:		
MAMMALIAN	MAMMALIAN EU - R-phrases		R22 - Harmful if Swallowed			
SUBSTANCE NOTES:	See Material Notes.					
PROPYLENE GLYCOL & GLYCOL ETHERS (PGES)			ID: 111-4	6-6		
%: 0.3400 - 1.5700	GS: NoGS	RC: None	NANO: NO	ROLE: polyol blend + catalyst		

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found		Nov	warnings found on HPD Priority	/ lists
SUBSTANCE NOTES:	See Material Notes.			
				_
N,N-DIMETHYLBENZY	LAMINE		ID: 103-83	-3
%: 0.3000 - 1.5000	GS: LT-P1	RC: None	NANO: NO	ROLE: polyol blend
HAZARDS:		AGI	ENCY(IES) WITH WARNINGS	:
MAMMALIAN	EU - R-phrase	EU - R-phrases R20 - Harmful by Inhalation (gas dust/mist)		
MAMMALIAN	EU - R-phrase	es	R21 - Harmful in	Contact with Skin
MAMMALIAN	EU - R-phrase	es	R22 - Harmful if S	Swallowed
SKIN IRRITATION	EU - R-phrase	es	R34 - Causes bu	rns
ACUTE AQUATIC	EU - R-phrase	28	R52 - Harmful to	Aquatic Organisms
SKIN IRRITATION	EU - GHS (H-	Statements)	H314 - Causes s damage	evere skin burns and eye
MULTIPLE	German FEA	- Substances Hazardous	to Waters Class 2 - Hazard	to Waters
SUBSTANCE NOTES:	See Material Notes.			
2-ETHYLHEXANOIC A	CID, POTASSIUM SALT		ID: 3164-8	5-0
%: 0.1700 - 0.5100	GS: LT-UNK	RC: None	NANO: NO	ROLE: polyol blend + catalyst
HAZARDS:		AGI	ENCY(IES) WITH WARNINGS	:
None Found		Nov	warnings found on HPD Priority	/ lists
SUBSTANCE NOTES:	See Material Notes.			
UNDISCLOSED				
UNDISCLOSED %: 0.0400 - 0.3400	GS: BM-4	RC: None	NANO: NO	ROLE: polyol blend + catalyst
	GS: BM-4		NANO: NO Ency(ies) with warnings	catalyst

SUBSTANCE NOTES: \$				
UNDISCLOSED				
%: 0.0300 - 0.3000	GS: LT-UNK	RC: None	NANO: NO	ROLE: polyol blend
HAZARDS:		AGEN	CY(IES) WITH WARNING	S:
None Found		No war	nings found on HPD Priori	ty lists
SUBSTANCE NOTES:	See Material Notes.			
ISOCYANIC ACID, POL HYDROHYDROXYP		HENYLENE ESTER, POLYME -ETHANEDIYL)]	R WITH ID: 53862	2-89-8
%: 0.0000 - 0.7000	GS: LT-UNK	RC: None	NANO: NO	ROLE: exterior adhes
HAZARDS:		AGEN	CY(IES) WITH WARNING	S:
None Found SUBSTANCE NOTES: 3	See Material Notes.	No war %: 0.0000 - 1.0000	nings found on HPD Priori	ty lists D URL:
SUBSTANCE NOTES: S		%: 0.0000 - 1.0000 Residuals Considered: \	HP Yes	D URL:
SUBSTANCE NOTES: S LANT #1 ntory Threshold: 1000 ppr prial Notes: Butyl sealant. protected by a NDA.		%: 0.0000 - 1.0000 Residuals Considered: \	HP Yes	D URL:
SUBSTANCE NOTES: S LANT #1 htory Threshold: 1000 ppr erial Notes: Butyl sealant. protected by a NDA. UNDISCLOSED	m Confidential information	%: 0.0000 - 1.0000 Residuals Considered: \ have been retained. The exa	HP Yes ct composition, as well as i	D URL:
SUBSTANCE NOTES: S LANT #1 ntory Threshold: 1000 ppr prial Notes: Butyl sealant. protected by a NDA.		%: 0.0000 - 1.0000 Residuals Considered: \	HP Yes	D URL:
SUBSTANCE NOTES: S LANT #1 htory Threshold: 1000 ppr erial Notes: Butyl sealant. protected by a NDA. UNDISCLOSED	m Confidential information	%: 0.0000 - 1.0000 Residuals Considered: \ have been retained. The exa RC: None	HP Yes ct composition, as well as i	D URL: names and CAS# of substance ROLE: Additive
SUBSTANCE NOTES: 3	m Confidential information	%: 0.0000 - 1.0000 Residuals Considered: \ have been retained. The exac RC: None AGEN0	HP Yes ct composition, as well as n NANO: NO	D URL: names and CAS# of substance ROLE: Additive S:
SUBSTANCE NOTES: S LANT #1 htory Threshold: 1000 ppr erial Notes: Butyl sealant. protected by a NDA. UNDISCLOSED %: 50.0000 - 60.0000 HAZARDS:	m Confidential information GS: LT-UNK	%: 0.0000 - 1.0000 Residuals Considered: \ have been retained. The exac RC: None AGEN0	HP Yes ct composition, as well as t NANO: NO CY(IES) WITH WARNINGS	D URL: names and CAS# of substance ROLE: Additive S:
SUBSTANCE NOTES: 3 LANT #1 http://theshold: 1000 ppi erial Notes: Butyl sealant. orotected by a NDA. UNDISCLOSED %: 50.0000 - 60.0000 HAZARDS: None Found	m Confidential information GS: LT-UNK	%: 0.0000 - 1.0000 Residuals Considered: \ have been retained. The exac RC: None AGEN0	HP Yes ct composition, as well as t NANO: NO CY(IES) WITH WARNINGS	D URL: names and CAS# of substance ROLE: Additive S:
SUBSTANCE NOTES: 3 LANT #1 httory Threshold: 1000 ppi erial Notes: Butyl sealant. orotected by a NDA. UNDISCLOSED %: 50.0000 - 60.0000 HAZARDS: None Found SUBSTANCE NOTES: 3	m Confidential information GS: LT-UNK	%: 0.0000 - 1.0000 Residuals Considered: \ have been retained. The exac RC: None AGEN0	HP Yes ct composition, as well as t NANO: NO CY(IES) WITH WARNINGS	D URL: names and CAS# of substance ROLE: Additive S:
SUBSTANCE NOTES: 3	m Confidential information GS: LT-UNK See Material Notes.	%: 0.0000 - 1.0000         Residuals Considered: \have been retained. The example         RC: None         AGENO         No war         RC: None	HP Yes ct composition, as well as t NANO: NO CY(IES) WITH WARNINGS nings found on HPD Priori	D URL: names and CAS# of substance ROLE: Additive S: ty lists ROLE: Reagent

IAZARDS:		AGE	NCY(IES) WITH WARNING	S:
MAMMALIAN	EU - GHS (H	-Statements)	H304 - May be t airways	fatal if swallowed and enters
CANCER	MAK Carcinogen Group 3B - Evidence effects but not sufficient for class			
SUBSTANCE NOTES: S	Gee Material Notes.			
JNDISCLOSED				
%: 1.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Reagent
IAZARDS:		AGE	NCY(IES) WITH WARNING	S:
None Found		No w	arnings found on HPD Priori	ty lists
JNDISCLOSED				
%: 1.0000 - 5.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Filler
HAZARDS:		AGE	NCY(IES) WITH WARNING	S:
CANCER	Japan - GHS		Carcinogenicity	- Category 1A
SUBSTANCE NOTES: S	See Material Notes.			
ANT #2 pry Threshold: 1000 ppn al Notes: Silicone based t airborne.		%: 0.0000 - 1.0000 Residuals Considered ne manufacturer, limestone	l: Yes	D URL:
SILOXANES AND SILIC	ONES, DI-ME, ME HYD	ROGEN	ID: 68037	7-59-2
%: 30.0000 - 70.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Reagent

LIMESTONE; CALCIUM	I CARBONATE		ID: 1317-65-3		
%: 10.0000 - 25.0000	GS: LT-UNK	RC: UNK	NANO: NO	ROLE: Colorant	
HAZARDS:		AGEN	CY(IES) WITH WARNINGS	S:	
None Found		No warnings found on HPD Priority lists			
SUBSTANCE NOTES: \$	See Material Notes.				
POLYDIMETHYLSILOX	(ANES ID: 63148-62-9				
%: 10.0000 - 30.0000	0000 - 30.0000 GS: LT-P1 RC: None		NANO: NO	ROLE: Reagent	
HAZARDS:		AGEN	CY(IES) WITH WARNINGS	3:	
PBT	EC - CEPA D	SL	Persistent, Bioa (PBiTH) to huma	ccumulative and inherently Toxi	
SUBSTANCE NOTES: S	See Material Notes.				
2-BUTANONE, O,O',O"·	(METHYLSILYLIDYNE)	TRIOXIME (8CI)(9CI)	ID: 22984	-54-9	
%: 3.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: ingredient	
		AGEN	CY(IES) WITH WARNINGS	5:	
HAZARDS:		No warnings found on HPD Priority lists			
		No wa	rnings found on HPD Priorit		
None Found	See Material Notes.	No wa	rnings found on HPD Priorit		
HAZARDS: None Found SUBSTANCE NOTES: \$ FUMED SILICA, CRYST		No wa	rnings found on HPD Priorit ID: 11294	5-52-5	
None Found SUBSTANCE NOTES: S		No wa RC: None		5-52-5 ROLE: Additive	
None Found SUBSTANCE NOTES: \$ FUMED SILICA, CRYST %: 3.0000 - 9.0000	TALLINE-FREE	RC: None	ID: 11294	ROLE: Additive	
None Found SUBSTANCE NOTES: \$	TALLINE-FREE	RC: None	ID: 11294 NANO: NO	ROLE: Additive	

1,2-ETHANEDIAMINE, N-(3-(TRIMETHOXYSILYL)PROPYL)-(9CI)			ID: 1760-24-3		
%: 0.3000 - 1.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: ingredient	
HAZARDS:		AGENCY(IE	S) WITH WARNING	S:	
None Found	No warnings	No warnings found on HPD Priority lists			
SUBSTANCE NOTES:	See Material Notes.				
BUTAN-2-ONE O,O',O'	IOXIME	ID: 2224-33-1			
%: 0.3000 - 1.0000	GS: BM-1	RC: None	NANO: NO	ROLE: ingredient	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				
SUBSTANCE NOTES:	See Material Notes.				
DIBUTYLTIN DILAURA	TE		ID: 77-58	3-7	
%: 0.3000 - 1.5000	GS: LT-1	RC: None	NANO: NO	ROLE: Catalyst	
HAZARDS:		AGENCY(IE	S) WITH WARNING	S:	
PBT	OSPAR - Priority PBTs & EDs & equivalent concern		PBT - Chemica	PBT - Chemical for Priority Action	
MULTIPLE	ChemSec - SIN List		CMR - Carcino Toxicant	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	
ENDOCRINE	ChemSec - SIN List		Endocrine Disr	Endocrine Disruption	
MULTIPLE	German FEA - Substances Hazardous to Waters		s Class 3 - Sever	Class 3 - Severe Hazard to Waters	
REPRODUCTIVE	Japan - GHS		Toxic to reprod	Toxic to reproduction - Category 1B	
SUBSTANCE NOTES:	See Material Notes.				
			ID: 556 6	27.0	
OCTAMETHYLCYCLOTETRASILOXANE (D4)         %: 0.1000 - 0.3000       GS: BM-1         RC: None			ID: 556-67-2 NANO: NO ROLE: reagent		
/0. 0. 1000 - 0.3000	GG. DIVI-1				
HAZARDS:		AGENCY(IE	S) WITH WARNING	S:	
REPRODUCTIVE	EU - R-phras	EU - R-phrases		R62 - Possible risk of impaired fertility	
ENDOCRINE	EU - Priority	Endocrine Disrupters	Category 1 - In Disruption Activ	vivo evidence of Endocrine vity	

PBT	EU - ESIS PBT	Under PBT evaluation	
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1	
РВТ	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)	
РВТ	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans	
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - Action Plan in development	
REPRODUCTIVE	EU - GHS (H-Statements)	H361f - Suspected of damaging fertility	
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.



## MANUFACTURER INFORMATION

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

ADDRESS: 97, rue de Vaudreuil Boucherville, QC J4B 1K7 Canada

WEBSITE: norbecarchitectural.com

TITLE: Sales & Marketing Director, architectural-industrial PHONE: 450 449 1499 EMAIL: dfournier@norbec.com

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)