# **Gasket Products** by National Guard Products

# **Health Product** Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 08 70 00

PRODUCT DESCRIPTION: Gasketing products are designed to seal the perimeter of a door. They are available in a variety of material options. Material options include thermo-plastic vulcanizates (TPV), polypropylene pile, ethylenepropylene- diene-monomer (EPDM), vinyl, silicone, neoprene, nylon and HDPE. Additionally, metal retainers can be used as part of the gasket. Metal options for gasketing include aluminum alloy, architectural bronze, brass, and stainless steel (Type 304). This HPD serves to disclose the chemical ingredients of all product options provided by NGP. For HPDs of specific configurations and SKUs, please contact NGP using the contact information listed at the end of this document.



# Section 1: Summary

# **Nested Method / Product Threshold**

All Substances Above the Threshold Indicated Are:

#### CONTENT INVENTORY

**Inventory Reporting Format** 

		•			
Nested Materials Method     Basic Method	c Method  1,000 ppm Per GHS SDS C Per OSHA MSDS C Other	Residuals/Impurities Considered in 0 of 14 Materials	Characterized C Yes Ex/SC C Yes C No % weight and role provided for all substances.		
Threshold Disclosed Per		Explanation(s) provided for Residuals/Impurities?  Yes No	Screened	○ Yes Ex/SC ⊙ Yes ○ No	
Material Product			Screened	C res Ex/3C G res C No	
			All substances screened using Priority Hazard Lists with results disclosed.		
			Identified	○ Yes Ex/SC ○ Yes ○ No	
				ances not disclosed by Name (Specific or fier and/ or one or more Special Condition	

Residuals/Impurities

#### 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.

Threshold level

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY

**GREENSCREEN SCORE | HAZARD TYPE** 

**ALUMINUM COMPONENTS [ ALUMINUM (PRIMARY CASRN IS 7429-90-5)** LT-P1 | RES | PHY | END ZINC LT-P1 | AQU | PHY | END | MUL MANGANESE LT-P1 | END | MUL | REP MAGNESIUM LT-UNK | PHY CHROMIUM LT-P1 | RES | END | SKI ] STEEL COMPONENTS [ IRON LT-P1 | END MANGANESE LT-P1 | END | MUL | REP COPPER LT-UNK ] STAINLESS STEEL COMPONENTS [ IRON LT-P1 | END CHROMIUM LT-P1 | RES | END | SKI NICKEL LT-1 | RES | CAN | SKI | MAM | MUL MANGANESE LT-P1 | END | MUL | REP NITROGEN NoGS SILICON LT-UNK COPPER LT-UNK **MOLYBDENUM LT-UNK** ] POLYPROLYNENE COMPOENENTS [ POLYPROPYLENE LT-UNK | PVC COMPONENTS | UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | CAN UNDISCLOSED LT-1 | CAN | DEL | END | REP | MUL POLYVINYL CHLORIDE (PVC) LT-P1 | RES UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 UNDISCLOSED LT-P1 | END UNDISCLOSED BM-1 | CAN | END | DEL | MUL | REP UNDISCLOSED BM-3 UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | CAN | END UNDISCLOSED LT-P1 | SKI | DEL | MAM | MUL UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | CAN | MUL UNDISCLOSED LT-P1 UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | END | MUL | AQU | SKI | REP | DEL UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED NoGS ] BRASS COMPONENTS [ COPPER LT-UNK ZINC LT-P1 | AQU | PHY | END | MUL] NYLON COMPONENTS [ NYLON 6 LT-UNK NYLON 6,6 LT-UNK IRON LT-P1 | END ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM) LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-

Number of Greenscreen BM-4/BM3 contents ... 2

did not follow guidance.

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

Nanomaterial ... Yes

#### **INVENTORY AND SCREENING NOTES:**

This HPD considers gaskets of aluminum, steel, stainless steel, bronze, brass, PVC, polypropylene pile, TPV, EPDM, neoprene, silicone, nylon, HDPE. Other than material options, the option of lead lining and most finish options are also included.

UNK UNDISCLOSED LT-UNK CARBON BLACK LT-1   CAN UNDISCLOSED
BM-2   CAN UNDISCLOSED LT-UNK   RES DODECANEDIOIC ACID,
POLYMER WITH 1,6-HEXANEDIAMINE LT-UNK UNDISCLOSED NoGS
UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-1   CAN   END SILICON LT-UNK MANGANESE LT-P1   END   MUL   REP
CAPROLACTAM LT-UNK   SKI   EYE ALUMINUM (PRIMARY CASRN IS
7429-90-5) LT-P1   RES   PHY   END CHROMIUM (III) OXIDE LT-P1   SKI
CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK NICKEL LT-1   RES   CAN   SKI   MAM   MUL ANTIMONY LT-1   AQU   CAN
ARSENIC LT-1   DEL   CAN   PBT   AQU   MAM   END   MUL   GEN
CHROMIUM LT-P1   RES   END   SKI ] EPDM AND NEOPRENE
COMPONENTS ETHYLENE-PROPYLENE COPOLYMER LT-UNK
NEOPRENE LT-UNK CARBON BLACK LT-1   CAN HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES (MINERAL OIL) LT-1   CAN   MUL
RESIDUAL OILS, PETROLEUM, SOLVENT-DEWAXED LT-1   PBT   CAN
MUL 3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYBENZENEPROPANOIC
ACID OCTADECYL ESTER LT-P1 ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM) LT-UNK DISTILLATES (PETROLEUM),
HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI) LT-1   PBT   CAN
MUL POLYPROPYLENE GLYCOL LT-UNK TALC BM-1   CAN LIMESTONE,
CALCIUM CARBONATE LT-UNK TITANIUM DIOXIDE LT-1   CAN   END HIGH-IMPACT POLYSTYRENE LT-UNK CHLORINATED POLYETHYLENE
(CPE, TYRIN) LT-UNK FUMED SILICA, CRYSTALLINE-FREE LT-P1   CAN
1,2-CYCLOHEXANEDICARBOXYLIC ACID, DINONYL ESTER BM-2
CALCIUM OXIDE LT-P1 1,1'-AZOBIS(FORMAMIDE) LT-UNK   RES ZINC
OXIDE BM-1   RES   AQU   MUL SILICA, AMORPHOUS LT-P1   CAN UNDISCLOSED LT-UNK MAGNESIUM OXIDE LT-UNK   CAN ALCOHOLS,
C16-18, DISTN. RESIDUES LT-UNK KAOLIN CLAY LT-UNK   CAN
COSMOLINE LT-1   CAN   MUL POLYETHYLENE GLYCOL LT-UNK
STEARIC ACID LT-P1   END SULFUR LT-UNK   SKI
THIOPEROXYDICARBONIC DIAMIDE ([(H2-N)C(S)]2-S2), TETRAKIS(2-METHYLPROPYL)- NoGS UNDISCLOSED LT-P1   AQU   SKI   EYE   MUL
ZINC, DIBUTYLDITHIOPHOSPHATE LT-P1   MUL (Z)-13-DOCOSENAMIDE
LT-UNK UNDISCLOSED LT-1   CAN   AQU   SKI   END   MUL 3,9-
DICYCLOHEX-3-ENYL-2,4,8,10-TETRAOXASPIRO[5.5]UNDECANE LT-P1   MUL BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-
TRIMETHYLPENTENE LT-P1 UNDISCLOSED LT-P1   AQU   SKI   MUL
FATTY ACIDS, TALLOW, HYDROGENATED, STEARIC ACID FRACTION,
DISTN. RESIDUES NoGS UNDISCLOSED LT-P1   MUL PARAFFIN WAXES
AND HYDROCARBON WAXES, MICROCRYST. LT-UNK UNDISCLOSED LT- P1   END   AQU   SKI   EYE   MUL   GEN SOLVENT-DEWAXED HEAVY
PARAFFINIC PETROLEUM DISTILLATES LT-1   CAN   MUL ETHYLENE
THIOUREA (ETU) LT-1   CAN   DEL   END   REP   MUL N-(2-
HYDROXYETHYL)OCTADECANAMIDE LT-P1   MUL POLYETHYLENE LT- UNK UNDISCLOSED LT-UNK SILICA GEL LT-UNK UNDISCLOSED LT-P1
MUL UNDISCLOSED LT-P1   MUL PARAFFIN LT-UNK UNDISCLOSED LT-
UNK OLEIC ACID LT-P1   END DI(2-ETHYLHEXYL)PHTHALATE (DEHP)
(PRIMARY CASRN) LT-1   CAN   DEL   END   REP   MUL ] POLYETHYLENE COMPONENTS [ POLYETHYLENE LT-UNK ] TPV COMPONENTS [
UNDISCLOSED LT-1   CAN UNDISCLOSED LT-1   CAN   MUL
UNDISCLOSED LT-1   CAN   MUL UNDISCLOSED LT-1   CAN   MUL
UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1
END   MUL UNDISCLOSED BM-4 UNDISCLOSED BM-1   RES   AQU   MUL UNDISCLOSED NoGS   DENSE SILICONE AND SILICONE COMPONENTS [
UNDISCLOSED LT-UNK UNDISCLOSED LT-1   CAN UNDISCLOSED LT-P1
CAN UNDISCLOSED LT-P1   PBT UNDISCLOSED BM-1 UNDISCLOSED LT-
P1   MUL UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED BM-1   END   PBT   MUL   REP UNDISCLOSED BM-2   CAN UNDISCLOSED
LT-1   PBT UNDISCLOSED NoGS UNDISCLOSED NoGS UNDISCLOSED
Nogs undisclosed LT-unk undisclosed LT-1   CAN   END
UNDISCLOSED LT-P1   CAN UNDISCLOSED LT-P1   MUL UNDISCLOSED BM-1 UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 UNDISCLOSED LT-P1
MUL UNDISCLOSED LT-P1   PBT UNDISCLOSED LT-P1   RES   CAN   GEN
UNDISCLOSED BM-2 UNDISCLOSED LT-UNK UNDISCLOSED LT-P1   SKI
UNDISCLOSED LT-P1   PBT   MUL   END UNDISCLOSED LT-P1   RES   AQU
PHY   SKI   EYE   MUL UNDISCLOSED LT-P1   PBT UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-1   DEL   REP   PHY   MAM   SKI
END   MUL UNDISCLOSED NoGS ] BRONZE COMPONENTS [ COPPER
LT-UNK ZINC LT-P1   AQU   PHY   END   MUL LEAD LT-1   DEL   CAN   PBT
REP   MUL   END   GEN NICKEL LT-1   RES   CAN   SKI   MAM   MUL ALUMINUM (PRIMARY CASRN IS 7429-90-5) LT-P1   RES   PHY   END
ARSENIC LT-1   DEL   CAN   PBT   AQU   MAM   END   MUL   GEN ]
OPTIONAL LEAD LINING [ LEAD LT-1   DEL   CAN   PBT   REP   MUL   END
OPTIONAL LEAD LINING [ LEAD LT-1   DEL   CAN   PBT   REP   MUL   END   GEN ANTIMONY LT-1   AQU   CAN   FINISH OPTIONS [ UNDISCLOSED   NOGS UNDISCLOSED LT-P1   END BARIUM SULFATE BM-2   CAN

UNDISCLOSED NoGS TITANIUM DIOXIDE LT-1 | CAN | END
UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | RES | GEN | MAM | SKI | EYE
| MUL HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES
(MINERAL OIL) LT-1 | CAN | MUL SOLVENT-DEWAXED HEAVY
PARAFFINIC PETROLEUM DISTILLATES LT-1 | CAN | MUL ]

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

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: Inherently non- emitting source per LEED®

#### **CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

PREPARER: Self-Prepared

C Yes
No

VERIFICATION #:

VERIFIER:

SCREENING DATE: 2019-08-20 PUBLISHED DATE: 2019-09-03 EXPIRY DATE: 2022-08-20

Gasket Products hpdrepository.hpd-collaborative.org



# Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

#### **ALUMINUM COMPONENTS**

%: 0.00 - 100.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES: This material constitutes the profile of the gasket products and it has alternate materials as disclosed in the HPD.

#### **ALUMINUM (PRIMARY CASRN IS 7429-90-5)**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

ID: 477951-22-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 100.00</b> GS: <b>LT-P1</b>		RC: UNK	nano: <b>No</b>	ROLE: Body	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs)	Asthmagen (Rs) - sensitizer-induced		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammab	H228 - Flammable solid		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches	H250 - Catches fire spontaneously if exposed to air		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contac	H261 - In contact with water releases flammable gases		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endoc	rine Disruptor		

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of aluminum alloy most commercially available aluminum alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

**ZINC** ID: 7440-66-6

%: 0.00 - 10.00 gs: LT-P1 RC: UNK NANO: **No** ROLE: Body

HAZARD SCREENING DATE: 2019-08-20

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of aluminum alloy most commercially available aluminum alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

MANGANESE				ID: <b>7439-96-5</b>
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-08-20				
%: <b>0.00 - 5.00</b>	GS: LT-P1	RC: UNK	nano: <b>No</b>	ROLE: Body
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endoci	rine Disruptor	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard	to Waters	
REPRODUCTIVE	GHS - Japan	Toxic to reprodu	iction - Category 1E	3 [H360]

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of aluminum alloy most commercially available aluminum alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

MAGNESIUM				ID: <b>7439-9</b>
HAZARD SCREENING METHOD: Pharos	Chemical and Materials Library	HAZARD SCREEN	IING DATE: 2019-08	3-20
%: 0.00 - 5.00	GS: LT-UNK	RC: UNK	nano: <b>No</b>	ROLE: Body
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fir	e spontaneously if	exposed to air
PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements)		H260 - In contact which may ignite s		s flammable gases

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of aluminum alloy most commercially available aluminum alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

CHROMIUM ID: 7440-47-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 1.00	GS: <b>LT-P1</b>	RC: UNK	nano: <b>No</b>	ROLE: Body
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
SKIN SENSITIZE	MAK	Sensitizing Subs	tance Sh - Danger o	f skin sensitization

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of aluminum alloy most commercially available aluminum alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

# STEEL COMPONENTS

%: 0.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES: This material is an alternate to aluminum alloy material.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-08-20

M: 0.00 - 100.00

GS: LT-P1

RC: UNK NANO: No ROLE: Body and Components

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

MANGANESE ID: 7439-96-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-08-20

MC: 0.00 - 1.00

GS: LT-P1

RC: UNK

NANO: No

ROLE: Body and Components

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1B [H360]

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

COPPER			ID: <b>7440-50-8</b>
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-08-20			98-20
%: <b>0.00 - 1.00</b>	GS: LT-UNK	RC: UNK NANO: No RC	DLE: Body and Components
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings	s found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

#### STAINLESS STEEL COMPONENTS

%: 0.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: NO

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES: This material is an alternate to aluminum alloy material.

IRON				ID: <b>7439-89-6</b>
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-08-20				
%: <b>0.00 - 75.00</b>	gs: <b>LT-P1</b>	RC: UNK	NANO: <b>No</b>	ROLE: Body and Components
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	s Po	tential Endocrin	e Disruptor

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of stainless steel most commercially available stainless steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

**CHROMIUM** ID: 7440-47-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-08-20

%: <b>0.00 - 20.00</b>	GS: LT-P1	RC: UNK NANO: No ROLE: Body and Components
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of stainless steel most commercially available stainless steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

AZARD SCREENING METHOD: Pha	aros Chemical and Materials Library	HAZARD SO	CREENING DATE: 20	19-08-20
s: <b>0.00 - 10.00</b>	gs: LT-1	RC: UNK	nano: <b>No</b>	ROLE: Body and Components
HAZARD TYPE	AGENCY AND LIST TITLES	V	VARNINGS	
RESPIRATORY	AOEC - Asthmagens	ļ	Asthmagen (Rs) - s	sensitizer-induced
CANCER	IARC	(	Group 1 - Agent is	Carcinogenic to humans
CANCER	IARC	(	Group 2b - Possib	ly carcinogenic to humans
CANCER	CA EPA - Prop 65	(	Carcinogen	
CANCER	US CDC - Occupational Carcinogens	(	Occupational Card	einogen
CANCER	US NIH - Report on Carcinogens	ŀ	Known to be a hun	nan Carcinogen
CANCER	US NIH - Report on Carcinogens	F	Reasonably Anticip	pated to be Human Carcinogen
SKIN SENSITIZE	EU - GHS (H-Statements)	ŀ	1317 - May cause	an allergic skin reaction
CANCER	EU - GHS (H-Statements)	ŀ	H351 - Suspected	of causing cancer
ORGAN TOXICANT	EU - GHS (H-Statements)		H372 - Causes dar repeated exposure	mage to organs through prolonged or
MULTIPLE	German FEA - Substances Hazardous to Waters	0 (	Class 2 - Hazard to	o Waters
CANCER	MAK		Carcinogen Group man	1 - Substances that cause cancer in
RESPIRATORY	MAK		Sensitizing Substa	nce Sah - Danger of airway & skin

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of stainless steel most commercially available stainless steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

MANGANESE ID: 7439-96-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-08-20

%: 0.00 - 5.00	GS: LT-P1	RC: UI	ΝK	NANO: <b>No</b>	ROLE: Body and Components	
HAZARD TYPE	AGENCY AND LIST TITLES		WARN	INGS		
ENDOCRINE	TEDX - Potential Endocrine Disruptors		Pote	ntial Endocrine	Disruptor	
MULTIPLE	German FEA - Substances Hazardous to Waters	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters		
REPRODUCTIVE	GHS - Japan			to reproducti	on - Category 1B [H360]	

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of stainless steel most commercially available stainless steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

NITHOGEN				ID: 1121-31-9
HAZARD SCREENING METHOD: <b>P</b>	HAZARD SCREENING DATE: 2019-08-20			
%: 0.00 - 1.00	GS: <b>NoGS</b>	RC: UNK	NANO: <b>No</b>	ROLE: Body and Components
HAZARD TYPE	AGENCY AND LIST TITLES	WAF	NINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of stainless steel most commercially available stainless steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

\*\*\*: 0.00 - 1.00

\*\*\*GS: LT-UNK

\*\*\*RC: UNK

\*\*\*NANO: No

\*\*\*ROLE: Body and Components

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of stainless steel most commercially available stainless steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

COPPER ID: 7440-50-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

8: 0.00 - 1.00

9: LT-UNK

RC: UNK

NANO: No

ROLE: Body and Components

WARNINGS

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of stainless steel most commercially available stainless steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

NITROGEN

ID: 7727-37-9

 MOLYBDENUM

 HAZARD SCREENING METHOD:
 Pharos Chemical and Materials Library
 HAZARD SCREENING DATE:
 2019-08-20

 %: 0.00 - 1.00
 GS: LT-UNK
 RC: UNK
 NANO: No
 ROLE: Body and Components

 HAZARD TYPE
 AGENCY AND LIST TITLES
 WARNINGS

 None found
 No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of stainless steel most commercially available stainless steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

# POLYPROLYNENE COMPOENENTS

%: 0.00 - 100.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES: This material constitutes gasketing parts of gasket material. It has several alternate materials.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

Materials Materials

Materials Materials

Movement Materials Materials

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering.

#### **PVC COMPONENTS**

%: 0.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES: This material is an alternate to aluminum alloy material.

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-08-20

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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: <b>F</b>	Pharos Chemical and Materials Library	HAZARD SCR	EENING DATE:	2019-08-20
%: 0.00 - 100.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# UNDISCLOSED

HAZARD SCREENING METHOD: PI	naros Chemical and Materials Library	HAZARD SCR	EENING DATE:	2019-08-20
%: 0.00 - 100.00	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CANCER	US CDC - Occupational Carcinogo	ens	Occupation	onal Carcinogen
CANCER	CA EPA - Prop 65		Carcinoge	en - specific to chemical form or exposure route
CANCER	IARC			- Possibly carcinogenic to humans - inhaled from nal sources
CANCER	MAK		•	en Group 3B - Evidence of carcinogenic effects

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: P	haros Chemical and Materials Library	HAZARD SCR	EENING DATE:	2019-08-20
%: 0.00 - 100.00	GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CANCER	US EPA - IRIS Carcinogens		(1986) Gro	oup B2 - Probable human Carcinogen

CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Banned unless Authorised
ENDOCRINE	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Chemical for Priority Action
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
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - Action Plan in development
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
REPRODUCTIVE	US EPA - PPT Chemical Action Plans	Reproductive effects
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
ENDOCRINE	EU - SVHC Authorisation List	Equivalent Concern - Candidate List
REPRODUCTIVE	GHS - Korea	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1B
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
REPRODUCTIVE	GHS - Malaysia	H360Fd - May damage fertility. Suspected of damaging the unborn child
CANCER	GHS - Australia	H350 - May cause cancer
REPRODUCTIVE	GHS - Australia	H360Fd - May damage fertility. Suspected of damaging the unborn child

POLYVINYL CHLORIDE (PVC)

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCR	EENING DATE:	2019-08-20
%: 0.00 - 100.00	gs: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
RESPIRATORY	AOEC - Asthmagens		Asthmage	en (Rs) - sensitizer-induced

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCR	EENING DATE:	2019-08-20
%: 0.00 - 100.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCR	EENING DATE:	2019-08-20
%: <b>0.00 - 100.00</b>	GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

ENDOCRINE	TEDX - Potential Endocrine Disrup	otors	Potential E	Endocrine Disruptor
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
%: <b>0.00 - 100.00</b>	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD SCREENING METHOD: Ph	naros Chemical and Materials Library	HAZARD SCR	EENING DATE:	2019-08-20

# **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20				
%: 0.00 - 45.00	GS: <b>BM-1</b>	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material		
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS			
CANCER	CA EPA - Prop 65		Carcinoge	n		
ENDOCRINE	EU - Priority Endocrine Disruptors	EU - Priority Endocrine Disruptors		Category 2 - In vitro evidence of biological activity related to Endocrine Disruption		
DEVELOPMENTAL	US NIH - Reproductive & Develop Monographs	US NIH - Reproductive & Developmental Monographs		Some Evidence of Adverse Effects - Developmental Toxicity		
RESTRICTED LIST	US EPA - PPT Chemical Action Plant	US EPA - PPT Chemical Action Plans		EPA Chemical of Concern - Action Plan published		
RESTRICTED LIST	US EPA - PPT Chemical Action Plant	ans	TSCA Work Plan chemical - Action Plan in development			
ENDOCRINE	ChemSec - SIN List	ChemSec - SIN List		Disruption		
ENDOCRINE	TEDX - Potential Endocrine Disrup	TEDX - Potential Endocrine Disruptors		Endocrine Disruptor		
REPRODUCTIVE	US EPA - PPT Chemical Action Plant	ans	Reproduc	tive effects		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 35.00	GS: <b>BM-3</b>	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		2019-08-20
%: <b>0.00 - 15.00</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

# **UNDISCLOSED**

HAZARD SCREENING METHOD: P	Pharos Chemical and Materials Library	HAZARD SCR	EENING DATE:	2019-08-20
%: <b>0.00 - 10.00</b>	gs: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CANCER	US EPA - IRIS Carcinogens		(1986) Gro	oup C - Possible human Carcinogen
ENDOCRINE	TEDX - Potential Endocrine Disrup	otors	Potential I	Endocrine Disruptor

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pha	ros Chemical and Materials Library	HAZARD SCR	CREENING DATE: 2019-08-20
%: 0.00 - 10.00	GS: LT-P1	RC: None	e NANO: No ROLE: Components and Gasketing Materia
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS
SKIN SENSITIZE	EU - GHS (H-Statements)		H317 - May cause an allergic skin reaction
DEVELOPMENTAL	EU - GHS (H-Statements)		H361d - Suspected of damaging the unborn child
ORGAN TOXICANT	EU - GHS (H-Statements)		H372 - Causes damage to organs through prolonged or repeated exposure
MULTIPLE	German FEA - Substances Hazard Waters	lous to	Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 10.00</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos (	Chemical and Materials Library	HAZARD SCR	EENING DATE:	2019-08-20
%: 0.00 - 5.00	GS: LT-UNK	RC: None	NANO: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# **UNDISCLOSED**

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCR	EENING DATE: <b>2019-08-20</b>
%: 0.00 - 5.00	gs: <b>LT-1</b>	RC: None	NANO: No ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS
CANCER	EU - GHS (H-Statements)		H350 - May cause cancer
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
CANCER	EU - Annex VI CMRs		Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	GHS - Australia		H350 - May cause cancer

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 1.00</b>	GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
	%: <b>0.00 - 1.00</b>	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

#### **UNDISCLOSED**

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCR	EENING DATE:	2019-08-20
%: <b>0.00 - 1.00</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# UNDISCLOSED

HAZARD SCREENING METHOD:	HAZARD SCR	EENING DATE:	2019-08-20	
%: 0.00 - 1.00	gs: LT-P1	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
ENDOCRINE	OSPAR - Priority PBTs & EDs & ed concern	quivalent	Endocrine	Disruptor - Chemical for Priority Action
RESTRICTED LIST	US EPA - PPT Chemical Action Pl	ans	EPA Chem	nical of Concern - Action Plan published
RESTRICTED LIST	US EPA - PPT Chemical Action PI	ans	TSCA Wor	k Plan chemical - Action Plan in development
ACUTE AQUATIC	EU - GHS (H-Statements)		H400 - Vei	y toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)		H410 - Vei	y toxic to aquatic life with long lasting effects
SKIN IRRITATION	EU - GHS (H-Statements)		H314 - Ca	uses severe skin burns and eye damage
REPRODUCTIVE	EU - GHS (H-Statements)			Suspected of damaging fertility. Suspected of the unborn child
REPRODUCTIVE	US EPA - PPT Chemical Action Pl	ans	Reproduc	tive effects
CHRON AQUATIC	US EPA - PPT Chemical Action Pl	ans	Highly tox	ic to aquatic organisms
DEVELOPMENTAL	US EPA - PPT Chemical Action Pl	ans	Developm	ental Effects

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 1.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 1.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found				No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREET	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 1.00</b>	GS: <b>NoGS</b>	RC: None	nano: <b>No</b>	ROLE: <b>68892-13-7</b>	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found			No warnings foun	d on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 1.00</b>	gs: <b>NoGS</b>	RC: None	nano: <b>No</b>	ROLE: Components and Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
None found				No warnings found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

%: 0.00 - 2.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: NO

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented

OTHER MATERIAL NOTES: This material constitutes internal parts in the gasket products.

COPPER				ID: <b>7440-50-8</b>
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  HAZARD SCREENING DATE: 2019-08-20				
%: <b>0.00 - 1.50</b>	GS: LT-UNK	RC: UNK	nano: <b>No</b>	ROLE: Components
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found			No warnings fou	and on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of copper alloy most commercially available copper alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

ZINC				ID: <b>7440-66-6</b>
HAZARD SCREENING METHOD: Pharos	HAZARD SCREE	ENING DATE: 2019	-08-20	
%: 0.00 - 0.70	GS: LT-P1	RC: UNK NANO: No ROLE: Components		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Ver	y toxic to aquatio	life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Ca	tches fire spontar	neously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		contact with wate	er releases flammable gases ously
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential E	Endocrine Disrupt	tor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - F	lazard to Waters	

SUBSTANCE NOTES: A range is provided to account for alloy variation. Due to the commodity nature of copper alloy most commercially available copper alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

# **NYLON COMPONENTS**

%: 0.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES: This material is an alternate to polypropylene pile material.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

\*\*: 0.00 - 75.00

GS: LT-UNK

\*\* AGENCY AND LIST TITLES

\*\* WARNINGS

ID: 25038-54-4

\*\* HAZARD SCREENING DATE: 2019-08-20

\*\* RC: None NANO: No ROLE: Nylon Brush

\*\* WARNINGS

SUBSTANCE NOTES: A range is given to account for product variation and to protect the proprietary nature of the formulation.

NYLON 6,6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

MAZARD SCREENING DATE: 2019-08-20

MID: 32131-17-2

HAZARD SCREENING DATE: 2019-08-20

MID: 32131-17-2

HAZARD SCREENING DATE: 2019-08-20

MID: 32131-17-2

HAZARD SCREENING DATE: 2019-08-20

MID: 32131-17-2

MARNINGS MARNINGS

NO warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

METHOD: NAMO: NO ROLE: Nylon Brush

MARNINGS

MARNINGS

MENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: A range is provided to account for alloy variation and finish options. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

# ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM)

ID: 25038-36-2

ID: 7439-89-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 10.00	GS: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	ROLE: Nylon Brush	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found			No warnings four	nd on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

None found

**IRON** 

No warnings found on HPD Priority Hazard Lists

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	ROLE: Nylon Brush	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found			No warnings four	nd on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	ROLE: Nylon Brush	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found No warnings found on HPD Priority Hazard List				nd on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Nylon Brush	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found No warnings found on HPD Priority Hazard Lists					

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	ROLE: Nylon Brush	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found		No warnings found on HPD Priority Hazard Lists			

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

CARBON BLACK ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: <b>LT-1</b>	RC: None	RC: None NANO: No ROLE: Nylon Brush		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
CANCER	US CDC - Occupational Carcinogens	Occupatio	Occupational Carcinogen		
CANCER	CA EPA - Prop 65	Carcinoge	Carcinogen - specific to chemical form or exposure route		
CANCER	IARC	•	Group 2B - Possibly carcinogenic to humans - inhaled fro occupational sources		
CANCER	MAK	•	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREE	NING DATE: <b>2019-</b> 0	08-20
%: 0.00 - 5.00	GS: <b>BM-2</b>	RC: None	nano: <b>No</b>	ROLE: Nylon Brush
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	MAK	•	n Group 3B - Evid	ence of carcinogenic effects cation

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# UNDISCLOSED

RC: <b>No</b>	ne NANO: No	ROLE: Nylon Brush
ES WARNI	NGS	
ens Asthr	nagen (Rs) - sensitizer-	induced
	ES WARNII	ES WARNINGS

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# DODECANEDIOIC ACID, POLYMER WITH 1,6-HEXANEDIAMINE

ID: **26098-55-5** 

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
	%: <b>0.00 - 5.00</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Nylon Brush

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	gs: <b>NoGS</b>	RC: None	nano: <b>No</b>	ROLE: Nylon Brush
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found			No warnings fou	nd on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCR		HAZARD SCREE	NING DATE: <b>2019-</b>	08-20
%: 0.00 - 5.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Nylon Brush
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found			No warnings four	nd on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	ROLE: Nylon Brush	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found			No warnings four	nd on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
	%: 0.00 - 5.00	GS: LT-1	RC: None	NANO: <b>No</b>	ROLE: Nylon Brush

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SILICON ID: 7440-21-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: LT-UNK	RC: UNK	NANO: <b>No</b>	ROLE: Nylon Brush	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found			No warnings fou	nd on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is given to account for alloy variation and product variation. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

MANGANESE ID: 7439-96-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: LT-P1	RC: UNK	nano: <b>No</b>	ROLE: Nylon Brush
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential E	ndocrine Disrupto	or
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
REPRODUCTIVE	GHS - Japan	Toxic to re	production - Cate	gory 1B

SUBSTANCE NOTES: A range is given to account for alloy variation and product variation. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

CAPROLACTAM ID: 105-60-2

HAZARD SCREENING METHOD: Phar	os Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20
%: 0.00 - 1.00	gs: LT-UNK	RC: None NANO: No ROLE: Nylon Brush
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# **ALUMINUM (PRIMARY CASRN IS 7429-90-5)**

ID: 477951-22-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
%: 0.00 - 1.00	gs: <b>LT-P1</b>	RC: UNK	RC: UNK NANO: No ROLE: Nylon Brush		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
RESPIRATORY	AOEC - Asthmagens	Asthmagen	Asthmagen (Rs) - sensitizer-induced		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flan	H228 - Flammable solid		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Cato	H250 - Catches fire spontaneously if exposed to air		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In co	ontact with water	r releases flammable gases	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential E	ndocrine Disrupto	or	

SUBSTANCE NOTES: A range is given to account for alloy variation and product variation. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions.

CHROMIUM (III) OXIDE ID: 1308-38-9

%: 0.00 - 1.00 GS: LT-P1 RC: None NANO: No ROLE: Nylon Brush HAZARD TYPE AGENCY AND LIST TITLES WARNINGS  SKIN SENSITIZE MAK Sensitizing Substance Sh - Danger of skin sensitizat	HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	NING DATE: <b>2019-</b>	08-20
	%: 0.00 - 1.00	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Nylon Brush
SKIN SENSITIZE MAK Sensitizing Substance Sh - Danger of skin sensitizat	HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	SKIN SENSITIZE	MAK	Sensitizing	Substance Sh - [	Danger of skin sensitization

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

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

ID: 65997-17-3

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019-	08-20
%: <b>0.00 - 1.00</b>	gs: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	ROLE: Nylon Brush

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

NICKEL ID: 7440-02-0

HAZARD SCREENING METHOD: Pharos	Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20
%: <b>0.00 - 1.00</b>	GS: <b>LT-1</b>	RC: UNK NANO: No ROLE: Nylon Brush
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
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	Known to be a human Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
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	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: A range is given to account for alloy variation and product variation. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions

ANTIMONY ID: 7440-36-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 1.00	GS: LT-1	RC: UNK	nano: <b>No</b>	ROLE: Nylon Brush	

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man

SUBSTANCE NOTES: A range is given to account for alloy variation and product variation. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions

ARSENIC ID: 7440-38-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 1.00</b>	gs: <b>LT-1</b>	RC: UNK	nano: <b>No</b>	ROLE: Nylon Brush	

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group A - Human Carcinogen
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
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
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
CANCER	GHS - Korea	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	GHS - New Zealand	6.7A - Known or presumed human carcinogens
CANCER	GHS - Japan	Carcinogenicity - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
CANCER	GHS - Australia	H350 - May cause cancer

SUBSTANCE NOTES: A range is given to account for alloy variation and product variation. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions

CHROMIUM

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-08-20

%: 0.00 - 1.00 GS: LT-P1 RC: UNK NANO: NO ROLE: Nylon Brush

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: A range is given to account for alloy variation and product variation. Due to the commodity nature of steel most commercially available steel contains some amount of recycled content. The exact percentage will likely change due to market conditions

#### **EPDM AND NEOPRENE COMPONENTS**

%: 0.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES: This material is an alternate to polypropylene pile material.

#### **ETHYLENE-PROPYLENE COPOLYMER**

ID: 9010-79-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 45.00</b>	GS: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS		
None found			No warning	gs found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

NEOPRENE ID: 9010-98-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 45.00</b>	GS: LT-UNK	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS .	
None found			No warnin	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

CARBON BLACK ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-08-20

%: 0.00 - 45.00	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES (MINERAL OIL)

ID: 64742-54-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20
%: 0.00 - 40.00	gs: LT-1	RC: None NANO: No ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
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
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	GHS - Australia	H350 - May cause cancer

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# RESIDUAL OILS, PETROLEUM, SOLVENT-DEWAXED

ID: 64742-62-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 40.00	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
РВТ	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
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
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	GHS - Australia	H350 - May cause cancer

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# 3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYBENZENEPROPANOIC ACID OCTADECYL ESTER

ID: 2082-79-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 30.00	gs: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No	warnings four	nd on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM)

ID: 25038-36-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 30.00	gs: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S		
None found			No warning	gs found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI)

ID: 64742-52-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 35.00	GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
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	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	GHS - Japan	Carcinogenicity - Category 1A
CANCER	GHS - Australia	H350 - May cause cancer

 ${\tt SUBSTANCE\ NOTES:}\ A\ range\ is\ provided\ to\ account\ for\ variation\ in\ product\ offering\ and\ to\ protect\ the\ proprietary\ nature\ of\ the\ formulation.}$ 

POLYPROPYLENE GLYCOL		ID: <b>25322-69-4</b>
HAZARD SCREENING METHOD. Pharos Chemical and Materials Library	HAZADO SCREENING DATE: 2019-08-20	

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 30.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S		
None found			No warning	s found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

TALC	ID: <b>14807-96-6</b>
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HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 30.00	GS: <b>BM-1</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNI	NGS	
CANCER	IARC	Group 2b - Possibly carcinogenic to humans		
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification		<u> </u>

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

LIMESTONE, CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 25.00</b>	gs: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S		
None found			No warning	gs found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: A range	is provided to account for variation in produ	uct offering and to	protect the pr	oprietary nature of the formulation.	

TITANIUM DIOXIDE		ID: <b>13463-67-</b>
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20
%: <b>0.00 - 25.00</b>	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

HAZARD SCREENING METHOD:	HAZARD SCREENING DATE: 2019-08-20			
%: 0.00 - 20.00	gs: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS .	
None found			No warning	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# **CHLORINATED POLYETHYLENE (CPE, TYRIN)**

**HIGH-IMPACT POLYSTYRENE** 

ID: 64754-90-1

ID: 9003-55-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 20.00	gs: LT-UNK	RC: None NANO: No ROLE: Gasketing Materia	al	

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

#### **FUMED SILICA, CRYSTALLINE-FREE**

ID: 112945-52-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 15.00	gs: <b>LT-P1</b>	RC: None NANO: No ROLE: Gasketing Material		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	GHS - Japan	Carcinogenicity - Category 1A		
CANCER	GHS - Australia	H350i - May cause cancer by inhalation		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# 1,2-CYCLOHEXANEDICARBOXYLIC ACID, DINONYL ESTER

ID: 474919-59-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 10.00</b>	GS: <b>BM-2</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	GS	
None found			No warnin	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

CALCIUM OXIDE ID: 1305-78-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S	
None found			No warning	gs found on HPD Priority Hazard Lists

 ${\tt SUBSTANCE\ NOTES:}\ A\ range\ is\ provided\ to\ account\ for\ variation\ in\ product\ offering\ and\ to\ protect\ the\ proprietary\ nature\ of\ the\ formulation.$ 

1,1'-AZOBIS(FORMAMIDE)

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-08-20

%: 0.00 - 5.00 GS: LT-UNK RC: None NANO: No ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

 ${\tt SUBSTANCE\ NOTES:}\ A\ range\ is\ provided\ to\ account\ for\ variation\ in\ product\ offering\ and\ to\ protect\ the\ proprietary\ nature\ of\ the\ formulation.$ 

ZINC OXIDE ID: 1314-13-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	gs: <b>BM-1</b>	RC: None	RC: None NANO: No ROLE: Gasketing Ma	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
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		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class	2 - Hazard to Wa	aters

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

SILICA, AMORPHOUS	ID: <b>7631-86-9</b>

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: <b>LT-P1</b>	RC: None NANO: No ROLE: Gasketing Material		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	GHS - Japan	Carcinogenicity - Category 1A		
CANCER	GHS - Australia	H350i - May cause cancer by inhalation		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	8	
None found			No warning	gs found on HPD Priority Hazard Lists

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	as .	
CANCER	MAK		ogen Group 4 - I	Non-genotoxic carcinogen with low

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# ALCOHOLS, C16-18, DISTN. RESIDUES

ID: 68603-17-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: LT-UNK	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	S	
None found			No warning	s found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

KAOLIN CLAY ID: 1332-58-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
%: 0.00 - 5.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	WARNINGS		
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification			

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

COSMOLINE				ID: <b>8009-03-8</b>
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
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	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	GHS - Australia	H350 - May cause cancer

POLYETHYLENE GLYCOL	ID: <b>25322-68-3</b>

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S	
None found			No warning	s found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

STEARIC ACID ID: 57-11-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	9S	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potent	ial Endocrine Di	sruptor

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

SULFUR 1D: 7704-34-9

HAZARD SCREENING METI	HOD: Pharos Chemical and Materials Library	HAZARD SCREE	NING DATE: 201	9-08-20
%: 0.00 - 5.00	GS: <b>LT-UNK</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material

SKIN IRRITATION EU - GHS (H-Statements) H315 - Causes skin irritation	HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation

# THIOPEROXYDICARBONIC DIAMIDE ([(H2-N)C(S)]2-S2), TETRAKIS(2-METHYLPROPYL)-

ID: 3064-73-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20	
%: <b>0.00 - 5.00</b>	gs: <b>NoGS</b>	RC: None NANO: No ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lis	ts

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

#### **UNDISCLOSED**

os Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20
GS: LT-P1	RC: None NANO: No ROLE: Gasketing Material
AGENCY AND LIST TITLES	WARNINGS
EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
EU - GHS (H-Statements)	H315 - Causes skin irritation
EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EU - GHS (H-Statements)	H319 - Causes serious eye irritation
German FEA - Substances Hazardous Waters	s to Class 2 - Hazard to Waters
	GS: LT-P1  AGENCY AND LIST TITLES  EU - GHS (H-Statements)  German FEA - Substances Hazardou

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### ZINC, DIBUTYLDITHIOPHOSPHATE

ID: 6990-43-8

HAZARD SCREENING METHOD: Pha	aros Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019	9-08-20
%: <b>0.00 - 5.00</b>	GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Gasketing Material

MULTIPLE German FEA - Substances Hazardous to Class 2 - Hazard to Waters  Waters	HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	MULTIPLE		Class 2 - Hazard to Waters

(Z)-13-DOCOSENAMIDE ID: 112-84-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found			No warnings	s found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

### UNDISCLOSED

HAZARD SCREENING METHOD: Ph	aros Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20
%: 0.00 - 5.00	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
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
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CANCER	GHS - Japan	Carcinogenicity - Category 1B

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

3,9-DICYCLOHEX-3-ENYL-2,4,8,10-TETRAOXASPIRO[5.5]UNDECANE

ID: 6600-31-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 -	Hazard to Water	ers

# BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE

ID: 68411-46-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: <b>LT-P1</b>	RC: None NANO: No ROLE: Gasketin	ng Material		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found No warnings found on HPD Priority Hazard List					

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: <b>LT-P1</b>	RC: None NANO: No ROLE: Gasketing Material		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
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		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# FATTY ACIDS, TALLOW, HYDROGENATED, STEARIC ACID FRACTION, DISTN. RESIDUES

ID: **72480-57-0** 

HAZARD SCREENING METHOD: Pharos Che	emical and Materials Library	HAZARD SCRE	EENING DATE: 20	019-08-20
%: 0.00 - 5.00	GS: NoGS	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material

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

### UNDISCLOSED

ARD TYPE AGENCY AND LIST TITLES	warnings s to Class 2 - Hazard to Waters		
00 - 5.00 GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Gasketing Material

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

### PARAFFIN WAXES AND HYDROCARBON WAXES, MICROCRYST.

ID: 63231-60-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found			No warning	s found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
	%: <b>0.00 - 5.00</b>	GS: LT-P1	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity	
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 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	
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	
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization	
GENE MUTATION	GHS - Japan	Germ cell mutagenicity - Category 1B	

### SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES

ID: 64742-65-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 2.50	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Gasketing Material		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer		
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		
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based animal evidence		
CANCER	GHS - Australia	H350 - May cause cancer		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

ETHYLENE THIOUREA (ETU)

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-08-20

MRC: None NANO: No ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CANCER	CA EPA - Prop 65	Carcinogen	
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity	
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity	
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen	
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen	
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list	
DEVELOPMENTAL	EU - GHS (H-Statements)	H360D - May damage the unborn child	
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans	
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	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification	
REPRODUCTIVE	GHS - Korea	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]	
REPRODUCTIVE	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants	
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1B	
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B	
DEVELOPMENTAL	GHS - Australia	H360D - May damage the unborn child	

# N-(2-HYDROXYETHYL)OCTADECANAMIDE

ID: **111-57-9** 

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 2.50	GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	as	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

POLYETHYLENE ID: 9002-88-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 2.50	GS: LT-UNK	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found			No warning	s found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 2.50</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found			No warning	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

SILICA GEL ID: 112926-00-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 2.50	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S	
None found			No warning	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	IING DATE: <b>2019</b>	-08-20
%: <b>0.00 - 2.50</b>	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		ters

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	NING DATE: 2019	0-08-20
%: 0.00 - 2.50	GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		iters

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

PARAFFIN				ID: <b>8002-74</b> -
HAZARD SCREENING METHOD:	HAZARD SCREENING DATE: 2019-08-20			
%: 0.00 - 2.50	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS	
None found			No warning	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20			
%: 0.00 - 2.50	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S			
None found			No warning	gs found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

OLEIC ACID ID: 112-80-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 2.50</b>	GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		sruptor

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation.

AZARD SCREENING METHOD: PI	naros Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20
0.00 - 2.50	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Banned unless Authorised
ENDOCRINE	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Chemical for Priority Action
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxi
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxici
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - Action Plan in development
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxican
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
REPRODUCTIVE	US EPA - PPT Chemical Action Plans	Reproductive effects
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with lo risk under MAK/BAT levels
ENDOCRINE	EU - SVHC Authorisation List	Equivalent Concern - Candidate List
REPRODUCTIVE	GHS - Korea	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1B
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B

REPRODUCTIVE	GHS - Malaysia	H360Fd - May damage fertility. Suspected of damaging the unborn child
CANCER	GHS - Australia	H350 - May cause cancer
REPRODUCTIVE	GHS - Australia	H360Fd - May damage fertility. Suspected of damaging the unborn child

### **POLYETHYLENE COMPONENTS**

%: 0.00 - 5.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES:

POLYETHYLENE				ID: <b>9002-88-4</b>
HAZARD SCREENING METHOD:	HAZARD SCREE	9-08-20		
%: 0.00 - 5.00	GS: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S	
None found			No warning	s found on HPD Priority Hazard Lists
SUBSTANCE NOTES: A rang	ge is provided to account for variation in produ	ct offering.		

## **TPV COMPONENTS**

%: 0.00 - 40.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES: This material is an alternate to polypropylene pile material.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 40.00	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

### UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 40.00	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Gasketing Material		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer		
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		
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based of animal evidence		
CANCER	GHS - Australia	H350 - May cause cancer		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 40.00	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
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
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	GHS - Australia	H350 - May cause cancer

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 40.00	gs: <b>LT-1</b>	RC: None NANO: No ROLE: Gasketing Material		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer		
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		
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence		
CANCER	GHS - Australia	H350 - May cause cancer		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 40.00	GS: LT-UNK	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS .		
None found			No warning	gs found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 40.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS		
None found			No warning	gs found on HPD Priority Hazard Lists	

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
%: 0.00 - 40.00	gs: LT-P1	RC: N	one	NANO: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNING	as .	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		sruptor	
MULTIPLE	German FEA - Substances Hazardous to Waters	o Class 3 - Severe Hazard to Waters		rd to Waters	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

## **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 40.00	GS: <b>BM-4</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	GS		
None found No warnings found on HPD Priority Hazard				gs found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 40.00	GS: <b>BM-1</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
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
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 40.00	GS: <b>NoGS</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS		
None found			No warnin	gs found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **DENSE SILICONE AND SILICONE COMPONENTS**

%: 0.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES: This material is an alternate to polypropylene pile material.

### UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 100.00</b>	GS: LT-UNK	RC: None	NANO: Yes	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS	
None found			No warning	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: <b>P</b>	haros Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20			
%: <b>0.00 - 80.00</b>	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Gasketing Mater			
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
CANCER	IARC	Group 1 - Agent is Carcinogenic to hum	ans		
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen			
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route			
CANCER	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources			
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)			
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man			
CANCER	GHS - New Zealand	6.7A - Known or presumed human carcinogens			
CANCER	GHS - Australia	H350i - May cause cancer by inhalation			
CANCER	GHS - Japan	Carcinogenicity - Category 1A [H350]			

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 80.00</b>	GS: <b>LT-P1</b>	RC: None NANO: Yes ROLE: Gasketing Material		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	GHS - Australia	H350i - May cause cancer by inhalation		
CANCER	GHS - Japan	Carcinogenicity - Category 1A [H350]		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 80.00	GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS	
РВТ	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTI humans		lative and inherently Toxic (PBiTH) to

### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 80.00	GS: <b>BM-1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	GS	
None found			No warnin	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: <b>F</b>	Pharos Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019	9-08-20
%: <b>0.00 - 65.00</b>	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	GS	
MULTIPLE	German FEA - Substances Hazardous to Waters	to Class 2 - Hazard to Waters		aters

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 65.00	GS: LT-UNK	RC: None	NANO: Yes	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	GS	
None found			No warning	s found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 65.00	GS: LT-UNK	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material	

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# **UNDISCLOSED**

HAZARD SCREENING METHOD: Ph	naros Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20
%: 0.00 - 55.00	GS: <b>BM-1</b>	RC: None NANO: Yes ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity
РВТ	EU - ESIS PBT	Under PBT evaluation
РВТ	EU - SVHC Authorisation List	PBT - Candidate list
РВТ	EU - SVHC Authorisation List	vPvB - Candidate list
РВТ	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)
PBT	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: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 55.00</b>	GS: <b>BM-2</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
GS: LT-1		RC: None NANO: Yes ROLE: Gasketi		
AGENCY AND LIST TITLES	WARNINGS			
EU - SVHC Authorisation List	PBT - Candidate list			
EU - SVHC Authorisation List	vPvB - Candidate list			
EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PB the Environment (based on aquatic organisms)			
ChemSec - SIN List		•	, Bioaccumulative, & Toxic / very	
	GS: LT-1  AGENCY AND LIST TITLES  EU - SVHC Authorisation List  EU - SVHC Authorisation List  EC - CEPA DSL	GS: LT-1 RC: None  AGENCY AND LIST TITLES WARNING  EU - SVHC Authorisation List PBT -  EU - SVHC Authorisation List vPvB  EC - CEPA DSL Persis the El  ChemSec - SIN List PBT /	GS: LT-1  RC: None  NANO: Yes  AGENCY AND LIST TITLES  WARNINGS  EU - SVHC Authorisation List  PBT - Candidate list  VPvB - Candidate list  EC - CEPA DSL  Persistent, Bioaccumu the Environment (base	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# UNDISCLOSED

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREE	ENING DATE: 2019	9-08-20
%: 0.00 - 25.00	GS: <b>NoGS</b>	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS	
None found			No warnin	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019	9-08-20
%: 0.00 - 20.00	GS: <b>NoGS</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS	
None found			No warning	gs found on HPD Priority Hazard Lists

### **UNDISCLOSED**

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019	-08-20
%: 0.00 - 20.00	GS: <b>NoGS</b>	RC: None	NANO: Yes	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	IGS	
None found			No warning	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: I	Pharos Chemical and Materials Library	HAZARD SCREE	NING DATE: <b>2019</b>	-08-20
%: 0.00 - 20.00	GS: LT-UNK	RC: None	NANO: Yes	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS .	
None found			No warning	s found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20
%: 0.00 - 15.00	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos	s Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20	
%: 0.00 - 10.00	GS: LT-P1	RC: None NANO: Yes ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CANCER	GHS - Japan	Carcinogenicity - Category 1A	
CANCER	GHS - Australia	H350i - May cause cancer by inhalation	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

ros Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019	)-08-20
GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
AGENCY AND LIST TITLES	WARNIN	GS	
German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		aters
	AGENCY AND LIST TITLES  German FEA - Substances Hazardous to	GS: LT-P1 RC: None  AGENCY AND LIST TITLES WARNING  German FEA - Substances Hazardous to Class 3	GS: LT-P1 RC: None NANO: No  AGENCY AND LIST TITLES WARNINGS  German FEA - Substances Hazardous to Class 2 - Hazard to Wa

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

## UNDISCLOSED

HAZARD SCREENING METHOD: I	Pharos Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019	9-08-20
%: <b>0.00 - 10.00</b>	GS: <b>BM-1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	GS	
None found			No warnin	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 10.00	gs: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	3	
None found			No warning	gs found on HPD Priority Hazard Lists

### **UNDISCLOSED**

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019	9-08-20
%: 0.00 - 10.00	gs: LT-P1	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	GS	
None found			No warnin	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharo	s Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019	0-08-20
%: 0.00 - 10.00	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	as	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3	3 - Severe Haza	rd to Waters

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
gs: LT-P1	RC: None	nano: <b>No</b>	ROLE: Gasketing Material		
AGENCY AND LIST TITLES	WARNIN	GS			
EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic ( the Environment (based on aquatic organisms)				
	AGENCY AND LIST TITLES	AGENCY AND LIST TITLES WARNING  EC - CEPA DSL Persis	AGENCY AND LIST TITLES WARNINGS  EC - CEPA DSL Persistent, Bioaccumu		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: LT-1	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material	

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	MAK	Germ Cell Mutagen 3a

### UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: <b>BM-2</b>	RC: None	NANO: <b>Yes</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	IGS	
None found			No warning	gs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

### UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S		
None found			No warning	s found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization		

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
%: 0.00 - 5.00	gs: LT-P1	RC: None NANO: No ROLE: Gasketing Mater			
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S		
PBT	EU - ESIS PBT	Under PBT evaluation			
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1			
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE the Environment (based on aquatic organisms)			
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicar			
PBT	ChemSec - SIN List	PBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative)			
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor			

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
%: 0.00 - 5.00	gs: LT-P1	RC: None NANO: No ROLE: Gasketing Material			
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced			
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects			
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H242 - Heating may cause a fire			
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation			
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation			
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters			

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: LT-P1	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material	

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)

### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S		
None found		No warnings found on HPD Priority Hazard Lists			

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S		
None found			No warning	gs found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 2.00	GS: LT-1	RC: None	NANO: <b>No</b>	ROLE: Gasketing Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
DEVELOPMENTAL	EU - GHS (H-Statements)	H361d - Suspected of damaging the unborn child
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1A

### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 15.00	GS: <b>NoGS</b>	RC: None	nano: <b>No</b>	ROLE: Gasketing Material	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS		
None found			No warning	gs found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in product offering and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **BRONZE COMPONENTS**

%: 0.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: NO

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

OTHER MATERIAL NOTES: This material is an alternate to aluminum alloy material.

COPPER ID: 7440-50-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 60.00	GS: LT-UNK	RC: UNK	NANO: <b>No</b>	ROLE: Body and Components

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for alloy variation and finish options. Due to the commodity nature of copper alloy most commercially available copper alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

ZINC 1D: 7440-66-6

HAZARD SCREENING METHOD: Pharos (	Chemical and Materials Library	HAZARD S	SCREENING DA	ATE: 2019-08-20
%: <b>0.00 - 45.00</b>	GS: LT-P1	RC: UNF	NANO:	No ROLE: Body and Components
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
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
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H250 - Catc	hes fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)			ontact with water releases flammable gases gnite spontaneously
ENDOCRINE	TEDX - Potential Endocrine Disruptors		Potential En	docrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	)	Class 2 - Ha	zard to Waters

SUBSTANCE NOTES: A range is provided to account for alloy variation and finish options. Due to the commodity nature of copper alloy most commercially available copper alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

**LEAD** ID: 7439-92-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20	
%: 0.00 - 3.00	GS: <b>LT-1</b>	RC: UNK NANO: No ROLE: Body	,
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant	
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen	
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humar	าร
CANCER	IARC	Group 2b - Possibly carcinogenic to humans	
CANCER	CA EPA - Prop 65	Carcinogen	
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity	
РВТ	US EPA - Priority PBTs (NWMP)	Priority PBT	
РВТ	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
РВТ	US EPA - Toxics Release Inventory PBTs	PBT
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
РВТ	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
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 - 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
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	GHS - Korea	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	GHS - Korea	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEVELOPMENTAL	GHS - Australia	H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1A [H360]

SUBSTANCE NOTES: A range is provided to account for alloy variation, finish options and lining option. Due to the commodity nature of copper alloy most commercially available copper alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

NICKEL ID: 7440-02-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: <b>LT-1</b>	RC: UNK	NANO: <b>No</b>	ROLE: Body and Components

AGENCY AND LIST TITLES	WARNINGS
AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
ARC	Group 1 - Agent is Carcinogenic to humans
ARC	Group 2b - Possibly carcinogenic to humans
CA EPA - Prop 65	Carcinogen
US CDC - Occupational Carcinogens	Occupational Carcinogen
US NIH - Report on Carcinogens	Known to be a human Carcinogen
US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EU - GHS (H-Statements)	H351 - Suspected of causing cancer
EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
MAK	Carcinogen Group 1 - Substances that cause cancer in man
MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
	ARC  ARC  CA EPA - Prop 65  US CDC - Occupational Carcinogens  US NIH - Report on Carcinogens  US NIH - Report on Carcinogens  EU - GHS (H-Statements)  EU - GHS (H-Statements)  German FEA - Substances Hazardous to Vaters  MAK

SUBSTANCE NOTES: A range is provided to account for alloy variation and finish options. Due to the commodity nature of copper alloy most commercially available copper alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

### **ALUMINUM (PRIMARY CASRN IS 7429-90-5)**

ID: 477951-22-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		19-08-20	
%: 0.00 - 1.00	GS: LT-P1	RC: UNI	K I	nano: <b>No</b>	ROLE: Body and Components
HAZARD TYPE	AGENCY AND LIST TITLES		WARNING	GS	
RESPIRATORY	AOEC - Asthmagens		Asthma	agen (Rs) - s	ensitizer-induced
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H228 -	Flammable	solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H250 -	Catches fire	spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H261 -	In contact w	vith water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors		Potenti	ial Endocrine	e Disruptor

SUBSTANCE NOTES: A range is provided to account for alloy variation and finish options. Due to the commodity nature of copper alloy most commercially available copper alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

ARSENIC ID: 7440-38-2

AZARD SCREENING METHOD: Pr	naros Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20
0.00 - 1.00	GS: <b>LT-1</b>	RC: UNK NANO: No ROLE: Body and Components
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group A - Human Carcinogen
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
РВТ	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
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 effect
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous t Waters	to Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
CANCER	GHS - Korea	Carcinogenicity - Category 1 [H350 - May cause cance
CANCER	GHS - New Zealand	6.7A - Known or presumed human carcinogens
GENE MUTATION	MAK	Germ Cell Mutagen 3a
CANCER	GHS - Australia	H350 - May cause cancer
CANCER	GHS - Japan	Carcinogenicity - Category 1A [H350]

SUBSTANCE NOTES: A range is provided to account for alloy variation and finish options. Due to the commodity nature of copper alloy most commercially available copper alloy contains some amount of recycled content. The exact percentage will likely change due to market conditions.

**OPTIONAL LEAD LINING** 

%: 0.00 - 60.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

weight percentage varies with the weight percentage of the base material and its density.

OTHER MATERIAL NOTES: Lead Lining is optional on aluminum, bronze, steel, and stainless steel base material. The exact

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-20
%: 0.00 - 55.00	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Optional Lining
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
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 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 - Toxics Release Inventory PBTs	PBT
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
РВТ	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 Toxici
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
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 - 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
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man

CANCER	GHS - Korea	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	GHS - Korea	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1A [H360]
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEVELOPMENTAL	GHS - Australia	H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			·08-20
GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	ROLE: Optional Lining
AGENCY AND LIST TITLES	WARNINGS		
EU - GHS (H-Statements)	H411 - To	oxic to aquatic lit	e with long lasting effects
MAK	Carcinog man	jen Group 2 - Co	nsidered to be carcinogenic for
	GS: LT-1  AGENCY AND LIST TITLES  EU - GHS (H-Statements)	GS: LT-1 RC: None  AGENCY AND LIST TITLES WARNINGS  EU - GHS (H-Statements) H411 - To  MAK Carcinog	GS: LT-1  RC: None  NANO: No  AGENCY AND LIST TITLES  WARNINGS  EU - GHS (H-Statements)  H411 - Toxic to aquatic lift  MAK  Carcinogen Group 2 - Cor

SUBSTANCE NOTES: A range is given to protect the proprietary nature of the formulation.

# FINISH OPTIONS %: 0.00 - 3.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities not considered. Only intentionally added ingredients are presented in this HPD.

other material notes: There are multiple finish options for each base material. For details, please refer to National Guard Products' catalog. The exact weight percentage of finish is correlated with the weight percentage of the base material and its density.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 5.00</b>	GS: NoGS	RC: None	NANO: <b>No</b>	ROLE: Finish Options	

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to account for variation in finish options and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 5.00	GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Finish Options
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ENDOCRINE	EU - Priority Endocrine Disruptors	Category Activity	1 - In vivo evider	nce of Endocrine Disruption

SUBSTANCE NOTES: A range is provided to account for variation in finish options and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

BARIUM SULFATE ID: 7727-43-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20			
%: 0.00 - 5.00	GS: <b>BM-2</b>	RC: None	nano: <b>No</b>	ROLE: Finish Options	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
CANCER	MAK	· ·	gen Group 4 - Non-genotoxic carcinogen with er MAK/BAT levels		

 ${\tt SUBSTANCE\ NOTES:}\ A\ range\ is\ provided\ to\ account\ for\ variation\ in\ finish\ options\ and\ to\ protect\ the\ proprietary\ nature\ of\ the\ formulation.$ 

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 2.50</b>	GS: <b>NoGS</b>	RC: None	NANO: <b>No</b>	ROLE: Finish Options	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found		No warnings found on HPD Priority Hazard Li			

SUBSTANCE NOTES: A range is provided to account for variation in finish options and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

TITANIUM DIOXIDE ID: 13463-67-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20
%: <b>0.00 - 2.50</b>	gs: LT-1	RC: None NANO: No ROLE: Finish Options
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

# UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREET	HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 2.50</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	ROLE: Finish Options	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found			No warnings fo	ound on HPD Priority Hazard Lists	

SUBSTANCE NOTES: A range is provided to account for variation in finish options and to protect the proprietary nature of the formulation. CAS number and substance name withheld due to being proprietary information of the supplier.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: <b>0.00 - 2.50</b>	GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	ROLE: Finish Options

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
GENE MUTATION	EU - SVHC Authorisation List	Mutagenic - Candidate list
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic 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
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	GHS - Korea	Germ cell mutagenicity - Category 1 [H340 - May cause genetic defects]
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
GENE MUTATION	GHS - New Zealand	6.6A - Known or presumed human mutagens
GENE MUTATION	GHS - Japan	Germ cell mutagenicity - Category 1B [H340]

# HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES (MINERAL OIL)

ID: 64742-54-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 2.50	GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	ROLE: Finish Options
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer		
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 Toxican		
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based animal evidence		
CANCER	GHS - Australia	H350 - May ca	use cancer	

### SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES

ID: 64742-65-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		DD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-08-20		
%: 0.00 - 2.50	gs: LT-1	RC: None	nano: <b>No</b>	ROLE: Finish Options
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer		
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 Toxica		
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based animal evidence		
CANCER	GHS - Australia	H350 - May	cause cancer	

SUBSTANCE NOTES: A range is provided to account for variation in finish options and to protect the proprietary nature of the formulation.



# **Section 3: Certifications and Compliance**

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

#### **VOC EMISSIONS**

## Inherently non- emitting source per LEED®

CERTIFYING PARTY: Self-declared

APPLICABLE FACILITIES: All

CERTIFICATE URL:

ISSUE DATE: 2019-

08-20

EXPIRY DATE:

CERTIFIER OR LAB: N/A

**CERTIFICATION AND COMPLIANCE NOTES:** 



# Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.



# Section 5: General Notes

This HPD considers gaskets of aluminum, steel, stainless steel, bronze, brass, PVC, polypropylene pile, TPV, EPDM, neoprene, silicone, nylon, HDPE. Other than material options, the option of lead lining and most finish options are also included. This HPD serves to disclose the chemical ingredients of all product options provided by NGP. For HPDs of specific configurations and SKUs, please contact NGP using the contact information listed at the end of this document.

#### MANUFACTURER INFORMATION

MANUFACTURER: National Guard Products

ADDRESS: 4985 East Raines Rd

Memphis TN 38118, United States

WEBSITE: www.ngp.com

CONTACT NAME: Roger Skold
TITLE: Technical Director
PHONE: 800-647-7874
EMAIL: rogers@ngp.com

#### **KEY**

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

#### **Hazard Types**

**AQU** Aquatic toxicity

**CAN** Cancer

**DEV** Developmental toxicity **END** Endocrine activity

**EYE** Eye irritation/corrosivity

**GEN** Gene mutation

**GLO** Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

**PBT** Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)
REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

**LAN** Land Toxicity

NF Not found on Priority Hazard Lists

#### GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

BM-2 Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (insuficient 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 Terms

**Inventory Methods:** 

LT-P1 List Translator Possible Benchmark 1 LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
NoGS Unknown (no data on List Translator Lists)

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material Nested Method / Product Threshold Substances listed within each material per threshold indicated per product Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances
  created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

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

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.