

CLASSIFICATION: 08 71 00

PRODUCT DESCRIPTION: THE NORTON 6000 SERIES POWERMATIC® OPERATOR COMBINES INTELLIGENCE, RELIABILITY AND SUPERIOR CONTROL IN ONE PACKAGE. DESIGNED WITH THE USER IN MIND, THIS OPERATOR FEATURES SIMPLE TO USE ELECTRONICS, AN ONBOARD POWER SUPPLY AND EASY INTEGRATION INTO ACCESS CONTROL SYSTEMS. IT ALSO INCLUDES: EASE OF INSTALLATION AND SETUP WITH SIMPLE INSTRUCTIONS AND LCD SCREEN / JOYSTICK CONTROLLER; APPLICATION VERSATILITY AND EASE OF ADJUSTMENT; NON-HANDED UNITS; PUSH- OR PULL-SIDE MOUNTING; INTERFACES WITH ELECTRIC HARDWARE AND ACCESS CONTROL SYSTEMS; OPERATES AS MECHANICAL SURFACE CLOSER DURING CLOSE CYCLE OR IF POWER IS TURNED OFF; CRITICAL FOR FIRE-RATED DOORS; CLUTCH MECHANISM ALLOWS CLOSER TO FUNCTION AS A NORMAL MANUAL DOOR CLOSER; OPERATION ACTIVATION OPTIONS INCLUDE: WALL SWITCHES, RADIO FREQUENCY DEVICES, PUSH-AND-GO, OBSTRUCTION DETECTION IN BOTH CLOSING AND OPENING DIRECTIONS, ADJUSTABLE MOTOR START DELAY, ADJUSTABLE VESTIBULE DELAY, ADJUSTABLE HOLD OPEN DELAY, SINGLE POLE DOUBLE THROW RELAY OUTPUT, BLOW OPEN FOR SMOKE VENTILATION, PRESENCE DETECTOR INPUT, AND ON - OFF - INFINITE HOLD OPEN SELECTOR MODE SWITCH

 **Section 1: Summary**

CONTENT INVENTORY

Threshold per material	Residuals and impurities considered in
<input type="radio"/> 100 ppm	0 of 26 materials
<input checked="" type="radio"/> 1,000 ppm	<input checked="" type="radio"/> see Section 2: Material
<input type="radio"/> Per GHS SDS	Notes
<input type="radio"/> Per OSHA MSDS	<input checked="" type="radio"/> see Section 5: General
<input type="radio"/> Other	Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Are the Percent Weight and Role provided for all substances?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Screened.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Are all substances screened using Priority Hazard Lists with results disclosed?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Identified.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Are all substances disclosed by Name (Specific or Generic) and Identifier?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

STEEL [IRON **LT-UNK** MANGANESE **LT-P1** | END NICKEL **LT-1** | MAM | CAN | SKI | AQU | RES ZINC **LT-P1** | AQU | RES | PHY] MOTOR GREASE [LITHIUM HYDROXIDE **LT-P1** | MUL WHITE MINERAL OIL **LT-UNK** LITHIUM 12-HYDROXYSTEARATE **LT-UNK**] MOTOR PAINT [WATER TITANIUM DIOXIDE **LT-1** | CAN ISOPROPYL ALCOHOL **LT-UNK** | EYE | PHY N-BUTANOL **LT-UNK** | MAM | SKI | EYE ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE) **LT-P1** | MAM | EYE | SKI | END | CAN PROPYLENE GLYCOL MONOMETHYL ETHER (PGME) **LT-UNK**] ELECTRONIC AL384 / 413 [ALUMINUM **LT-P1** | RES | PHY | END SILICON **LT-UNK** IRON **LT-UNK** COPPER **LT-P1** NICKEL **LT-1** | MAM | CAN | SKI | AQU | RES ZINC **LT-P1** | AQU | RES | PHY MANGANESE **LT-P1** | END TIN **LT-UNK** MAGNESIUM **LT-UNK** | PHY] A401 CHROME SILICONE WIRE [IRON **LT-UNK** SILICON **LT-UNK** CHROMIUM **LT-UNK** | RES CARBON **LT-UNK**] ZINC-PLATED SCREW [ZINC **LT-P1** | AQU | RES | PHY] CLOSER OIL [DISTILLATES (PETROLEUM), SOLVENT-REFINED (MILD) LIGHT PARAFFINIC (9CI) **LT-1** | CAN | MUL] PVC SP-7107-T100 [POLYVINYL CHLORIDE (PVC) **LT-UNK** | RES] ZAMAC #3 [ZINC **LT-P1** | AQU | RES | PHY ALUMINUM **LT-P1** | RES | PHY | END MAGNESIUM **LT-UNK** | PHY COPPER **LT-P1**] AL6061-T1 ALUMINUM [ALUMINUM **LT-P1** | RES | PHY | END MAGNESIUM **LT-UNK** | PHY SILICON **LT-UNK** TITANIUM **LT-UNK** ZINC **LT-P1** | AQU | RES | PHY COPPER **LT-P1** IRON **LT-UNK** CHROMIUM **LT-UNK** | RES MANGANESE **LT-P1** | END] CHAIN TENSIONER [POLYETHYLENE **LT-UNK**] LUBRICOMP RAL [NYLON 6,6 **LT-UNK** POLYTETRAFLUOROETHYLENE **LT-UNK** KEVLAR **LT-UNK** | CAN] PAPER [MIXED RECYCLED PAPER] LOCTITE 454 SEALANT [2-PROPENOIC ACID,2-CYANO-, ETHYL ESTER (9CI) **LT-UNK** | EYE | SKI] POLYURETHANE BAR [POLYURETHANE FOAMS **LT-UNK**] POWDER COAT [LIMESTONE; CALCIUM CARBONATE **LT-UNK** ALUMINUM OXIDE **LT-UNK** | RES TITANIUM OXIDE **LT-UNK** ALUMINUM **LT-P1** | RES | PHY | END] JET LUBE MARINE MOLY PASTE [PETROLEUM; CRUDE OIL] ANODIZED ALUMINUM [ALUMINA TRIHYDRATE **LT-UNK** | RES] NEOPRENE [CHLOROPRENE (USE CAS RN: 126-99-8)] C36000 HALF HARD BRASS [COPPER **LT-P1** ZINC **LT-P1** | AQU | RES | PHY LEAD **LT-1** | MAM | AQU | DEV | REP | CAN | PBT | MUL | END IRON **LT-UNK**] NITRILE RUBBER [NITRILES, C14-18 **LT-P1** | MUL] LOCTITE 2047 SEALANT [(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXY-2,1-ETHANEDIYL) BISMETHACRYLATE **LT-UNK** | SKI 1,2-PROPANEDIOL, 2-METHYL, MONOMETHACRYLATE **LT-UNK** POLYTETRAFLUOROETHYLENE **LT-UNK** CUMENE HYDROPEROXIDE **LT-P1** | MAM | SKI | AQU | PHY | MUL FUMED SILICA, CRYSTALLINE-FREE **LT-UNK** CUMENE **LT-1** | AQU | CAN | MAM | END PHENYLHYDRAZINE **LT-1** | MAM | EYE | SKI | CAN | AQU | GEN | MUL] LOCTITE 416 SEALANT [2-PROPENOIC ACID,2-CYANO-, ETHYL ESTER (9CI) **LT-UNK** | EYE | SKI POLYMETHYL METHACRYLATE (PMMA) **LT-UNK** | RES HYDROQUINONE **LT-1** | MAM | CAN | EYE | SKI | AQU | GEN | END | MUL] MYLAR [POLYETHYLENE TEREPHTHALATE (PET) **LT-UNK**] LOCTITE 242 SEALANT [HYDROGEL **LT-UNK** 14-HYDROXY-3,6,9,12-TETRAOXATETRADEC-1-YL-9-OCTADECENOIC ACID **LT-UNK** CUMENE HYDROPEROXIDE **LT-P1** | MAM | SKI | AQU | PHY | MUL PROPYLENE GLYCOL **LT-UNK**]

Number of Greenscreen BM-4/BM3 contents..... 0
 Contents highest concern GreenScreen Benchmark or List translator
 Score..... LT-1
 Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

Residuals not considered as impacts are not considered to be significant

VOLATILE ORGANIC COMPOUND (VOC) CONTENT CERTIFICATIONS AND COMPLIANCE

VOC Content data is not applicable for this product category.

Self-Published* VERIFIER: SCREENING DATE: May 11, 2016 EXPIRY DATE*: May 11, 2019
 Third Party Verified VERIFICATION #: RELEASE DATE: May 11, 2016 * or within 3 months of significant change in product contents
 *See HPDC website for details

Section 2: Content in Descending Order of Quantity

Steel **%: 45.82 - 45.82** **HPD URL:**
 Inventory Threshold: 1000 ppm Residuals Considered: No
 Material Notes: Material found in the following components: Back plate; cover; pinion extension; pinion extension ring; pinion washer; pinion sprocket; needle bearing; tensioner plate; motor sprocket; motor washer; chain guard; Ball - 1/8"; thrust collar; spring adjust nut; spring adjust screw; spring adjust collar; roller bearing; retaining ring; end plug; piston assembly; washer; pinion; pinion bushing; main spring; ANSI 3/8 chain; arm hub; slide arm; spring clip; dowel pin; roll pin

IRON **ID: 7439-89-6**
 %: 95.00 - 95.00 GS: LT-UNK RC: None NANO: NO ROLE: Iron

HAZARDS: AGENCY(IES) WITH WARNINGS:
 None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Structural Component

Manganese **ID: 7439-96-5**
 %: 2.00 - 2.00 GS: LT-P1 RC: None NANO: NO ROLE: Manganese

HAZARDS: AGENCY(IES) WITH WARNINGS:
 ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: Structural Component

Nickel **ID: 7440-02-0**
 %: 0.20 - 0.20 GS: LT-1 RC: None NANO: NO ROLE: Nickel

HAZARDS: AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R52 - Harmful to Aquatic Organisms
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
SKIN IRRITATION	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
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Structural Component

ZINC **ID: 7440-66-6**
 %: 0.15 - 9.10 GS: LT-P1 RC: None NANO: NO ROLE: Zinc

HAZARDS: AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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

SUBSTANCE NOTES: Structural Component

Motor Grease **%: 19.91 - 19.91** **HPD URL:**
 Inventory Threshold: 1000 ppm Residuals Considered: No
 Material Notes:

lithium hydroxide **ID: 1310-65-2**
 %: 75.00 - 85.00 GS: LT-P1 RC: None NANO: NO ROLE: lithium hydroxide

HAZARDS: AGENCY(IES) WITH WARNINGS:

MULTIPLE German PEL - Substances Hazardous to Waters Class 2 - Hazard to Waters

SUBSTANCE NOTES: Motor Component

WHITE MINERAL OIL

ID: 8042-47-5

%: 15.00 - 25.00 GS: LT-UNK RC: None NANO: NO ROLE: WHITE MINERAL OIL

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Motor Component

LITHIUM 12-HYDROXYSTEARATE

ID: 7620-77-1

%: 1.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: LITHIUM 12-HYDROXYSTEARATE

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Motor Component

Motor Paint

%: 19.91 - 19.91

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

WATER

ID: 7732-18-5

%: 65.00 - 85.00 GS: RC: None NANO: NO ROLE: WATER

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Paint Component

Titanium dioxide

ID: 13463-67-7

%: 10.00 - 15.00 GS: LT-1 RC: None NANO: NO ROLE: Titanium dioxide

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen (form-specific or based on limited exposure pathways)
CANCER	IARC	Group 2b: Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: Paint Component

Isopropyl Alcohol

ID: 67-63-0

%: 1.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: Isopropyl Alcohol

HAZARDS: AGENCY(IES) WITH WARNINGS:

EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation

SUBSTANCE NOTES: Paint Component

N-BUTANOL

ID: 71-36-3

%: 1.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: N-BUTANOL

HAZARDS: AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
EYE IRRITATION	EU - R-phrases	R41 - Risk of serious damage to eyes
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage

SUBSTANCE NOTES: Paint Component

Ethylene glycol monobutyl ether (EGBE)

ID: 111-76-2

%: 1.00 - 5.00 GS: LT-P1 RC: None NANO: NO ROLE: Ethylene glycol monobutyl ether (EGBE)

HAZARDS: AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: Paint Component

PROPYLENE GLYCOL MONOMETHYL ETHER (PGME)

ID: 107-98-2

%: 1.00 - 5.00

GS: LT-UNK

RC: None NANO: NO ROLE: PROPYLENE GLYCOL MONOMETHYL ETHER (PGME)

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Paint Component

Electronic

%: 8.36 - 8.36

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes: Material found in the following components: Main wiring harness; power connection harness; motor power harness; rocker switch; 3 position switch; fuse switch; potentiometer assembly; and PCB

AL384 / 413

%: 4.84 - 4.84

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

ALUMINUM

ID: 7429-90-5

%: 76.05 - 85.70

GS: LT-P1

RC: None

NANO: NO

ROLE: ALUMINUM

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

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 with water releases flammable gases

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

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 with water releases flammable gases

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 with water releases flammable gases

SUBSTANCE NOTES: Various Components

Silicon

ID: 7440-21-3

%: 10.50 - 13.00 GS: LT-UNK RC: None NANO: NO ROLE: Silicon

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Assembly Component

IRON

ID: 7439-89-6

%: 1.20 - 2.00 GS: LT-UNK RC: None NANO: NO ROLE: IRON

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

COPPER

ID: 7440-50-8

%: 1.00 - 4.50 GS: LT-P1 RC: None NANO: NO ROLE: COPPER

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

Nickel

ID: 7440-02-0

%: 0.50 - 0.50

GS: LT-1

RC: None

NANO: NO

ROLE: Nickel

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN

EU - R-phrases

R23 - Toxic by Inhalation (gas, vapour, dust/mist)

CANCER

EU - R-phrases

R40 - Limited Evidence of Carcinogenic Effects

SKIN SENSITIZE

EU - R-phrases

R43 - May cause sensitization by skin contact

ORGAN TOXICANT

EU - R-phrases

R48: Danger of serious damage to health by prolonged exposure.

ACUTE AQUATIC

EU - R-phrases

R52 - Harmful to Aquatic Organisms

CANCER

IARC

Group 1 - Agent is Carcinogenic to humans

CANCER

IARC

Group 2b - Possibly carcinogenic to humans

CANCER

CA EPA - Prop 65

Carcinogen

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

US NIH - Report on Carcinogens

Reasonably Anticipated to be Human Carcinogen

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SKIN IRRITATION

EU - GHS (H-Statements)

H317 - May cause an allergic skin reaction

SUBSTANCE NOTES: Various Components

ZINC

ID: 7440-66-6

%: 0.50 - 3.00

GS: LT-P1

RC: None

NANO: NO

ROLE: ZINC

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

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

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

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

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

SUBSTANCE NOTES: Various Components

Manganese

ID: 7439-96-5

%: 0.35 - 0.50

GS: LT-P1

RC: None

NANO: NO

ROLE: Manganese

HAZARDS: AGENCY(IES) WITH WARNINGS:

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: Various Components

TIN

ID: 7440-31-5

%: 0.15 - 0.35

GS: LT-UNK

RC: None

NANO: NO

ROLE: TIN

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

MAGNESIUM

ID: 7439-95-4

%: 0.10 - 0.10

GS: LT-UNK

RC: None

NANO: NO

ROLE: MAGNESIUM

HAZARDS:

AGENCY(IES) WITH WARNINGS:

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

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

SUBSTANCE NOTES: Various Components

A401 Chrome Silicone Wire

%: 3.88 - 3.88

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

IRON

ID: 7439-89-6

%: 97.40 - 97.40

GS: LT-UNK

RC: None

NANO: NO

ROLE: IRON

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Wiring Components

Silicon

ID: 7440-21-3

%: 1.35 - 1.35

GS: LT-UNK

RC: None

NANO: NO

ROLE: Silicon

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Wiring Components

Chromium

ID: 7440-47-3

%: 0.70 - 0.70

GS: LT-UNK

RC: None

NANO: NO

ROLE: Chromium

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Wiring Component

Carbon

ID: 7440-44-0

%: 0.55 - 0.55 GS: LT-UNK RC: None NANO: NO ROLE: Carbon

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Wiring Component

Zinc-Plated Screw

%: 1.93 - 1.93

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

ZINC

ID: 7440-66-6

%: 100.00 - 100.00

GS: LT-P1

RC: None

NANO: NO

ROLE: ZINC

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

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

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

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

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

SUBSTANCE NOTES: Screw Component

Closer Oil

%: 1.82 - 1.82

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

DISTILLATES (PETROLEUM), SOLVENT-REFINED (MILD) LIGHT PARAFFINIC (9CI)

ID: 64741-89-5

%: 100.00 - 100.00

GS: LT-1

RC: None NANO: NO

ROLE: DISTILLATES (PETROLEUM), SOLVENT-REFINED (MILD) LIGHT PARAFFINIC (9CI)

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER

EU - R-phrases

R45 - May cause cancer

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

SUBSTANCE NOTES: Closer Oil Component

PVC SP-7107-T100

%: 1.33 - 1.33

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

%: 100.00 - 100.00

GS: LT-UNK

RC: None

NANO: NO

ROLE: POLYVINYL CHLORIDE (PVC)

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: End Cap Component

Zamac #3

%: 1.30 - 1.30

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

ZINC

ID: 7440-66-6

%: 67.70 - 96.10

GS: LT-P1

RC: None

NANO: NO

ROLE: ZINC

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

SUBSTANCE NOTES: Pinion Component

ALUMINUM

ID: 7429-90-5

%: 3.90 - 28.00 GS: LT-P1 RC: None NANO: NO ROLE: ALUMINUM

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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 with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
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 with water releases flammable gases

SUBSTANCE NOTES: Pinion Ring Component

MAGNESIUM

ID: 7439-95-4

%: 0.02 - 0.10 GS: LT-UNK RC: None NANO: NO ROLE: MAGNESIUM

HAZARDS: AGENCY(IES) WITH WARNINGS:

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
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

SUBSTANCE NOTES: Pinion Ring Component

COPPER

ID: 7440-50-8

%: 0.00 - 3.90 GS: LT-P1 RC: None NANO: NO ROLE: COPPER

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Pinion Ring Component

AL6061-T1 Aluminum

%: 1.06 - 1.06

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

ALUMINUM

ID: 7429-90-5

%: 97.40 - 97.40 GS: LT-P1 RC: None NANO: NO ROLE: ALUMINUM

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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 with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
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 with water releases flammable gases
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 with water releases flammable gases

SUBSTANCE NOTES: Various Components

MAGNESIUM

ID: 7439-95-4

%: 0.80 - 0.80 GS: LT-UNK RC: None NANO: NO ROLE: MAGNESIUM

HAZARDS: AGENCY(IES) WITH WARNINGS:

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
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

SUBSTANCE NOTES: Various Components

Silicon

ID: 7440-21-3

%: 0.63 - 0.63 GS: LT-UNK RC: None NANO: NO ROLE: Silicon

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

TITANIUM

ID: 7440-32-6

%: 0.25 - 0.25 GS: LT-UNK RC: None NANO: NO ROLE: TITANIUM

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

ZINC

ID: 7440-66-6

%: 0.25 - 0.25

GS: LT-P1

RC: None

NANO: NO

ROLE: ZINC

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

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

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

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

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

SUBSTANCE NOTES: Various Components

COPPER

ID: 7440-50-8

%: 0.24 - 0.24 GS: LT-P1 RC: None NANO: NO ROLE: COPPER

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

IRON

ID: 7439-89-6

%: 0.20 - 0.20 GS: LT-UNK RC: None NANO: NO ROLE: IRON

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

Chromium

ID: 7440-47-3

%: 0.19 - 0.19

GS: LT-UNK

RC: None

NANO: NO

ROLE: Chromium

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Various Components

Manganese

ID: 7439-96-5

%: 0.10 - 0.10 GS: LT-P1 RC: None NANO: NO ROLE: Manganese

HAZARDS: AGENCY(IES) WITH WARNINGS:

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: Various Components

Chain tensioner

%: 0.66 - 0.66

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

POLYETHYLENE

ID: 9002-88-4

%: 100.00 - 100.00 GS: LT-UNK RC: None NANO: NO ROLE: POLYETHYLENE

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Chain Tensioner Component

Lubricomp RAL

%: 0.66 - 0.66

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

NYLON 6,6

ID: 32131-17-2

%: 74.00 - 84.00 GS: LT-UNK RC: None NANO: NO ROLE: NYLON 6,6

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Slider Component

POLYTETRAFLUOROETHYLENE

ID: 9002-84-0

%: 8.00 - 18.00 GS: LT-UNK RC: None NANO: NO ROLE:

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

KEVLAR

ID: 26125-61-1

%: 8.00 - 18.00 GS: LT-UNK RC: None NANO: NO ROLE: KEVLAR

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER MAK Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Slider Component

Paper

%: 0.46 - 0.46

HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

Mixed recycled paper

ID:

%: 100.00 - 100.00 GS: RC: None NANO: NO ROLE: Mixed recycled paper

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Label Component

Loctite 454 Sealant

%: 0.33 - 0.33

HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

2-PROPENOIC ACID,2-CYANO-, ETHYL ESTER (9CI)

ID: 7085-85-0

%: 100.00 - 100.00 GS: LT-UNK RC: None NANO: NO ROLE: 2-PROPENOIC ACID,2-CYANO-, ETHYL ESTER (9CI)

HAZARDS: AGENCY(IES) WITH WARNINGS:

EYE IRRITATION EU - R-phrases R36 - Irritating to eyes
SKIN IRRITATION EU - R-phrases R38 - Irritating to skin
SKIN IRRITATION EU - GHS (H-Statements) H315 - Causes skin irritation
EYE IRRITATION EU - GHS (H-Statements) H319 - Causes serious eye irritation

SUBSTANCE NOTES: Sealant Component

Polyurethane Bar

%: 0.33 - 0.33

HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

POLYURETHANE FOAMS

ID: 9009-54-5

%: 100.00 - 100.00 GS: LT-UNK RC: None NANO: NO ROLE: POLYURETHANE FOAMS

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Cushion Block Component

Powder Coat

%: 0.27 - 0.27

HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

LIMESTONE; CALCIUM CARBONATE**ID: 1317-65-3**

%: 85.00 - 90.00 GS: LT-UNK RC: None NANO: NO ROLE: LIMESTONE; CALCIUM CARBONATE

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Powder Coat Component

ALUMINUM OXIDE**ID: 1344-28-1**

%: 5.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: ALUMINUM OXIDE

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Powder Coat Component

Titanium oxide**ID: 51745-87-0**

%: 5.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: Titanium oxide

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Powder Coat Component

ALUMINUM**ID: 7429-90-5**

%: 2.65 - 2.65 GS: LT-P1 RC: None NANO: NO ROLE: ALUMINUM

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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 with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
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 with water releases flammable gases
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 with water releases flammable gases

SUBSTANCE NOTES: Powder Coat Component

Jet Lube Marine Moly paste**%: 0.17 - 0.17****HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

Petroleum; Crude oil**ID:**

%: 100.00 - 100.00 GS: RC: None NANO: NO ROLE: Petroleum; Crude oil

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Lube Component

Anodized Aluminum**%: 0.15 - 0.15****HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

Alumina trihydrate**ID: 21645-51-2**

%: 100.00 - 100.00 GS: LT-UNK RC: None NANO: NO ROLE: Alumina trihydrate

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Pulley Component

Neoprene**%: 0.13 - 0.13****HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

Chloroprene (USE CAS RN: 126-99-8)**ID: 184963-09-5**

%: 100.00 - 100.00 GS: RC: None NANO: NO ROLE: Chloroprene (USE CAS RN: 126-99-8)

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

C36000 Half Hard Brass

%: 0.12 - 0.12

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

COPPER

ID: 7440-50-8

%: 62.00 - 62.00 GS: LT-P1 RC: None NANO: NO ROLE: COPPER

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

ZINC

ID: 7440-66-6

%: 35.00 - 35.00

GS: LT-P1

RC: None

NANO: NO

ROLE: ZINC

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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
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
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
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
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

SUBSTANCE NOTES: Various Components

LEAD

ID: 7439-92-1

%: 3.00 - 3.00

GS: LT-1

RC: None

NANO: NO

ROLE: LEAD

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	EU - R-phrases	R61 - May cause harm to the unborn child
REPRODUCTIVE	EU - R-phrases	R62 - Possible risk of impaired fertility
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	Developmental Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Developmental Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Priority PBTs (PPT)	Priority PBT
PBT	US EPA - Toxics Release Inventory PBTs	PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
DEVELOPMENTAL	EU - GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
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

SUBSTANCE NOTES: Ball- Closer Assembly Component

IRON

ID: 7439-89-6

%: 0.00 GS: LT-UNK RC: None NANO: NO ROLE: IRON

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Ball for Closer Assembly Component

Nitrile Rubber

%: 0.01 - 0.01

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

nitriles, C14-18

ID: 68002-66-4

%: 100.00 - 100.00 GS: LT-P1 RC: None NANO: NO ROLE: nitriles, C14-18

HAZARDS: AGENCY(IES) WITH WARNINGS:

MULTIPLE German FEA - Substances Hazardous to Waters Class 2 - Hazard to Waters

SUBSTANCE NOTES: Roller Bearing Component- Closer Assembly

Loctite 2047 Sealant

%: 0.01 - 0.01

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate

ID: 24448-20-2

%: 60.00 - 100.00 GS: LT-UNK RC: None NANO: NO ROLE: (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate

HAZARDS: AGENCY(IES) WITH WARNINGS:

SKIN SENSITIZE MAK Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Sealant Component

1,2-PROPANEDIOL, 2-METHYL, MONOMETHACRYLATE

ID: 27813-02-1

%: 1.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: 1,2-PROPANEDIOL, 2-METHYL, MONOMETHACRYLATE

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Sealant Component

POLYTETRAFLUOROETHYLENE

ID: 9002-84-0

%: 1.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: POLYTETRAFLUOROETHYLENE

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Sealant Component

CUMENE HYDROPEROXIDE

ID: 80-15-9

%: 1.00 - 5.00 GS: LT-P1 RC: None NANO: NO ROLE: CUMENE HYDROPEROXIDE

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
SKIN IRRITATION	EU - R-phrases	R34 - Causes burns
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms
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)	H314 - Causes severe skin burns and eye damage
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Sealant Component

FUMED SILICA, CRYSTALLINE-FREE

ID: 112945-52-5

%: 1.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: FUMED SILICA, CRYSTALLINE-FREE

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Sealant Component

CUMENE

ID: 98-82-8

%: 0.10 - 1.00

GS: LT-1

RC: None

NANO: NO

ROLE: CUMENE

HAZARDS: AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Statements)	H304: May be fatal if swallowed and enters airways
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Sealant Component

PHENYLHYDRAZINE

ID: 100-63-0

%: 0.10 - 1.00

GS: LT-1

RC: None

NANO: NO

ROLE: PHENYLHYDRAZINE

HAZARDS: AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases	R24 - Toxic in Contact with Skin
MAMMALIAN	EU - R-phrases	R25 - Toxic if Swallowed
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
CANCER	EU - R-phrases	R45 - May cause cancer
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
CANCER	CA EPA - Prop 65	Carcinogen
GENE MUTATION	EU - R-phrases	R68 - May cause irreversible effects
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H311 - Toxic in contact with skin
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN IRRITATION	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H341 - Suspected of causing genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
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	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence

SUBSTANCE NOTES: Sealant Component

Loctite 416 Sealant

%: 0.00

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

2-PROPENOIC ACID,2-CYANO-, ETHYL ESTER (9CI)**ID: 7085-85-0**

%: 85.00 - 90.00

GS: LT-UNK

RC: None NANO: NO ROLE: 2-PROPENOIC ACID,2-CYANO-, ETHYL ESTER (9CI)

HAZARDS: AGENCY(IES) WITH WARNINGS:

EYE IRRITATION EU - R-phrases R36 - Irritating to eyes
 SKIN IRRITATION EU - R-phrases R38 - Irritating to skin
 SKIN IRRITATION EU - GHS (H-Statements) H315 - Causes skin irritation
 EYE IRRITATION EU - GHS (H-Statements) H319 - Causes serious eye irritation

SUBSTANCE NOTES: Sealant Component

POLYMETHYL METHACRYLATE (PMMA)**ID: 9011-14-7**

%: 10.00 - 15.00

GS: LT-UNK

RC: None NANO: NO ROLE: POLYMETHYL METHACRYLATE (PMMA)

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Sealant Component

HYDROQUINONE**ID: 123-31-9**

%: 0.10 - 1.00

GS: LT-1

RC: None

NANO: NO

ROLE: HYDROQUINONE

HAZARDS: AGENCY(IES) WITH WARNINGS:

MAMMALIAN EU - R-phrases R22 - Harmful if Swallowed
 CANCER EU - R-phrases R40 - Limited Evidence of Carcinogenic Effects
 EYE IRRITATION EU - R-phrases R41 - Risk of serious damage to eyes
 SKIN SENSITIZE EU - R-phrases R43 - May cause sensitization by skin contact
 ACUTE AQUATIC EU - R-phrases R50 - Very Toxic to Aquatic Organisms
 GENE MUTATION EU - R-phrases R68 - May cause irreversible effects
 ACUTE AQUATIC EU - GHS (H-Statements) H400 - Very toxic to aquatic life M = 10
 SKIN IRRITATION EU - GHS (H-Statements) H317 - May cause an allergic skin reaction
 EYE IRRITATION EU - GHS (H-Statements) H318 - Causes serious eye damage
 GENE MUTATION EU - GHS (H-Statements) H341 - Suspected of causing genetic defects
 CANCER EU - GHS (H-Statements) H351 - Suspected of causing cancer
 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 2 - Considered to be carcinogenic for man
 SKIN SENSITIZE MAK Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Sealant Component

Mylar**%: 0.00****HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

POLYETHYLENE TEREPHTHALATE (PET)**ID: 25038-59-9**

%: 100.00 - 100.00

GS: LT-UNK

RC: None NANO: NO

ROLE: POLYETHYLENE TEREPHTHALATE (PET)

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Retaining Ring Component

Loctite 242 Sealant**%: 0.00****HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

hydrogel**ID: 25852-47-5**

%: 60.00 - 60.00

GS: LT-UNK RC: None NANO: NO

ROLE: hydrogel

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Sealant Component

14-HYDROXY-3,6,9,12-TETRAOXATETRADEC-1-YL-9-OCTADECENOIC ACID**ID: 9004-96-0**

%: 10.00 - 30.00

GS: LT-UNK

RC: None NANO: NO

ROLE: 14-HYDROXY-3,6,9,12-TETRAOXATETRADEC-1-YL-9-OCTADECENOIC ACID

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Sealant Component

CUMENE HYDROPEROXIDE

ID: 80-15-9

%: 1.00 - 5.00

GS: LT-P1

RC: None

NANO: NO

ROLE: CUMENE HYDROPEROXIDE

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
SKIN IRRITATION	EU - R-phrases	R34 - Causes burns
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms
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)	H314 - Causes severe skin burns and eye damage
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Sealant Component

PROPYLENE GLYCOL

ID: 57-55-6

%: 1.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: PROPYLENE GLYCOL

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Sealant Component

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.

LCA

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: NA

CERTIFICATE URL:

http://www.assaabloydss.com/Local/DSS/Sustainability/EPD/Mutual%20Listings/Locks%20and%20Hardware/114.1_ASSA%20ABLOY_mrEPD_Norton%206000_DoorOperator.jpg

CERTIFICATION AND COMPLIANCE NOTES:

OTHER

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: NA

CERTIFICATE URL:

<http://www.assaabloydss.com/Local/DSS/Sustainability/Declare/Declare%20Labels/NORTON%206000%20DOOR%20OPERATOR.jpg>

CERTIFICATION AND COMPLIANCE NOTES:

Declare Labels

ISSUE EXPIRY C

DATE: DATE: O

2015- 2016- IL

10-01 10-01

Section 4: Accessories

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

Section 5: General Notes

Residuals not considered as impacts are not considered to be significant

MANUFACTURER INFORMATION

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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	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive toxicity
DEV Developmental toxicity	MUL Multiple hazards	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	OZO Ozone depletion	LAN Land Toxicity
GEN Gene mutation	PBT Persistent Bioaccumulative Toxic	NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2 Benchmark 2 (use but search for safer substitutes)	LT-1 List Translator Likely Benchmark 1
BM-1 Benchmark 1 (avoid - chemical of high concern)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-U Benchmark Unspecified (insufficient data to benchmark)	UNK Unknown (no data on List Translator Lists)

Recycled Types

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

Other

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)
Independent Lab Manufacturer's self-declaration using results from an independent lab
Second Party Verification by trade association or other interested party
Third Party Verification by independent certifier
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator, and when available, full GreenScreen assessments. The HPD Open Standard does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD Open Standard noted.