

Tugela Escalator
by TK Elevator

HPD UNIQUE IDENTIFIER: 1000314880
HPD UNIQUE PRODUCT ID: Not provided.
CLASSIFICATION: 14 31 00 Escalators
PRODUCT DESCRIPTION: Tugela escalator is designed with high passenger volumes in mind, moving people safely in high-traffic areas, all over the world and in all kinds of climates. With dependable technology and components, this escalator is an exceptionally reliable partner. From low-to heavy duty environments, Tugela is highly customizable providing all the flexibility needed in any applications. Tugela provides core traffic functions for reliable performance, but also many optional traffic features, as well as a variety of commercial parameters and options to choose from. Smart safety features and durable materials are an essential part of the Tugela design. Tugela combines smart component design with advanced cloud-ready technology that enables predictive maintenance. A cutting-edge mix for smooth, reliable operation. Tugela has been specially designed to withstand wear and tear, even after years of high-peak use. Tugela's superior performance and longevity are the result of first-class design processes, advanced manufacturing systems and high-quality components, specially engineered for infrastructure applications. The materials disclosed in this HPD are related for the reference unit. Manufacturing for this system takes place in Mieres (Asturias)-Spain, Hamburg (Germany) and Zhongshan (China)

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Residuals/Impurities Evaluation	For all contents above the threshold, the manufacturer has:
→ Basic Method	→ Completed	
Threshold Disclosed Per	Explanation(s) provided :	
→ Product	Yes	Characterized Yes
		Provided weight and role.
Threshold Level		Screened Yes
→ 100 ppm		Provided screening results using HPDC-approved methods.
		Identified Yes
		Provided name and CAS RN or other identifier.

CONTENT IN DESCENDING ORDER OF QUANTITY

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

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

TUGELA ESCALATOR [IRON MULTIPLE ALUMINIUM MULTIPLE GLASS ZINC MULTIPLE CHROMIUM MULTIPLE MANGANESE MULTIPLE NICKEL MULTIPLE COOPER MULTIPLE RUBBER, SYNTHETIC EPDM NoGS POLYVINYL CHLORIDE (PVC) (PRIMARY CASRN IS 9002-86-2) LT-P1] CAN | MAM SILICON MULTIPLE PALMITOYL ALANINE NoGS NIOBIUM RUBIDIUM OXIDE (NBRBO3) NoGS PURINE(1H)-2,6-DIONE, 1,3-DIBUTYL-3,7-DIHYDRO- NoGS CARBON MULTIPLE MOLYBDENUM MULTIPLE LUBRICATING OILS LT-1] CAN | PBT | MUL ABSINTHIUM, EXT. LT-P1] MUL STARCH (PRIMARY CASRN IS 9005-25-8) NoGS CELLULOSE ACETATE (PRIMARY CASRN IS 9004-35-7) NoGS BRASS MULTIPLE POMALIDOMIDE NoGS PENTAERYTHRITYL TETRASTEARATE LT-UNK CALCIUM CARBONATE BM-3] EYE LIGNIN NoGS FIBER GLASS REINFORCED EPOXY]

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, LT-1, LT-UNK
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special Conditions applied: [MetalAlloy]
Special Conditions applied: [GeologicalMaterial]
Special Conditions applied: [MixedRecycledContent]
Special Conditions applied: [Polymers]

All major materials of the Tugela Escalator have been included in the Substances, Materials&Polimers All relevant materials comply with applicable safety and environmental standards.

PFAS DETAILS:

This product does **not** contain intentionally added PFAS and materials and substances from suppliers are verified to **not** contain PFAS.

Attestation:

2026-02-11

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

COMPLIANCE See Section 3 for additional listings.

VOC emissions: Environmental Product Declaration (EPD) by EPD International AB

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

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 3.0, available on the HPDC website at: www.hpd-collaborative.org/hpd-3-0-standard

TUGELA ESCALATOR

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities evaluation completed within the scope of the present study. No relevant impact on filling behavior is expected at this stage. Material-specific details are addressed in the “Substances; Materials and Polymers” chapter.

OTHER PRODUCT NOTES: Preliminary HPDC assessment of the Tugela escalator component focused on filling behavior and gating concept using the Basic Method

IRON

ID: EN 10025 S275JR

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

%: 68.1400 - 68.1500

GreenScreen: MULTIPLE

RC: None

NANO: Unknown

MATERIAL ROLE: Structure component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening is not applicable to this Special Condition

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [EN 10025 S275JR]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

ALLOYING ELEMENTS

- Iron (Fe)

CASRN: 7439-89-6

Percentage: 71.18 % - 71.19 %

Element Role: Alloy element

GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

MATERIAL CONTENT NOTES: Used in structural components.

ALUMINIUM

ID: EN AW-6060

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

%: 15.6400 - 15.6500

GreenScreen: MULTIPLE

RC: None

NANO: No

MATERIAL ROLE: Structure component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening is not applicable to this Special Condition

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [[EN AW-6060](#)]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

ALLOYING ELEMENTS

- Aluminum (Al)**
CASRN: 7429-90-5
Percentage: 13.16 % - 13.17 %
Element Role: Alloy element
GreenScreen Score: LT-P1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Children's Toy Products

MATERIAL CONTENT NOTES: Used in structural components and alloying elements.

GLASS

ID: **Geological Material**

HAZARD DATA SOURCE: [HPDC Special Conditions Policy](#)

%: **7.4500 - 7.4600** GreenScreen: **Not Required** RC: **None** NANO: **No** MATERIAL ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening is not applicable to this Special Condition		

INGREDIENT DESCRIPTION AND COMPOSITION: Per typical glass composition, silica (SiO₂) is the main component (~72%), with minor contributions from Na₂O, K₂O, CaO, Al₂O₃, and trace oxides (Fe₂O₃, MgO) totaling ~3–5%.

COUNTRY OF ORIGIN: España

RADIOACTIVE ELEMENTS: According to supplier provided information and/or internal testing, it is determined that no radioactive elements are found in this material.

POTENTIAL PRESENCE OF TOXIC METALS: According to supplier provided information and/or internal testing, it is determined that no toxic metals are found in this material.

MATERIAL CONTENT NOTES: Glass panels for visibility. Used in panels and rigid components.

ZINC

ID: **EN 1179**

HAZARD DATA SOURCE: [Pharos Chemical and Materials Library](#)

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening is not applicable to this Special Condition		
METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [EN 1179]		
METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.		
ALLOYING ELEMENTS Zinc (Zn) CASRN: 7440-66-6 Percentage: 0.05 % - 0.06 % Element Role: Alloy element GreenScreen Score: LT-P1		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Antimicrobials
MATERIAL CONTENT NOTES: Galvanization coating. Alloying element in metals.		

CHROMIUM

ID: UNS CR 20

HAZARD DATA SOURCE: Pharos Chemical and Materials Library				
%: 1.2100 - 1.2200	GreenScreen: MULTIPLE	RC: None	NANO: Unknown	MATERIAL ROLE: Alloy element
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
Hazard Screening is not applicable to this Special Condition				

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [[UNS CR 20](#)]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

ALLOYING ELEMENTS

- Chromium (Cr)**
CASRN: 7440-47-3
Percentage: 1.13 % - 1.14 %
Element Role: Alloy element
GreenScreen Score: LT-P1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Cosmetics & Personal Care Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Children's Toy Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Cosmetics and Personal Care Products

MATERIAL CONTENT NOTES: Chromium content for stainless steel

MANGAMESE

ID: **UNS M 21**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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Hazard Screening is not applicable to this Special Condition

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [[UNS M 21](#)]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

ALLOYING ELEMENTS

- Manganese (Mn)**
CASRN: 7439-96-5
Percentage: 1.14 % - 1.15 %
Element Role: Alloy element
GreenScreen Score: LT-P1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Children's Toy Products

MATERIAL CONTENT NOTES: Steel hardening additive. Used in structural components.

NICKEL

ID: UNS N02200

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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Hazard Screening is not applicable to this Special Condition

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [[UNS N02200](#)]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

ALLOYING ELEMENTS

- Nickel (Ni)**
CASRN: 7440-02-0
Percentage: 0.69 % - 0.70 %
Element Role: Alloy element
GreenScreen Score: LT-1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Certain Metals
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Footwear, Apparel & Jewelry Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 All Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Children's Toy Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Cosmetics and Personal Care Products

MATERIAL CONTENT NOTES: Corrosion resistance alloying. Alloying element in metals.

COOPER

ID: **EN CW004A**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

%: **0.7200 - 0.7300** GreenScreen: **MULTIPLE** RC: **None** NANO: **Unknown** MATERIAL ROLE: **Alloy element**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS																					
Hazard Screening is not applicable to this Special Condition																							
METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [EN CW004A]																							
METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.																							
ALLOYING ELEMENTS Copper (Cu) CASRN: 7440-50-8 Percentage: 0.64 % - 0.65 % Element Role: Alloy element GreenScreen Score: LT-P1 <table> <tr> <th>ADDITIONAL LISTINGS</th><th>LIST NAME AND SOURCE</th><th>NOTIFICATION</th></tr> <tr> <td>RESTRICTED LIST</td><td>Perkins+Will (P+W)</td><td>P&W - Precautionary List Precautionary list of substances recommended for avoidance</td></tr> <tr> <td>RESTRICTED LIST</td><td>Green Science Policy Institute (GSPI)</td><td>GSPI - Six Classes Precautionary List Antimicrobials</td></tr> <tr> <td>RESTRICTED LIST</td><td>Cradle to Cradle Products Innovation Institute (C2CP II)</td><td>C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials</td></tr> <tr> <td>RESTRICTED LIST</td><td>Cradle to Cradle Products Innovation Institute (C2CP II)</td><td>C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products</td></tr> <tr> <td>RESTRICTED LIST</td><td>Cradle to Cradle Products Innovation Institute (C2CP II)</td><td>C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Children's Toy Products</td></tr> <tr> <td>RESTRICTED LIST</td><td>Cradle to Cradle Products Innovation Institute (C2CP II)</td><td>C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Cosmetics and Personal Care Products</td></tr> </table>			ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION	RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List Precautionary list of substances recommended for avoidance	RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Antimicrobials	RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials	RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products	RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Children's Toy Products	RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Cosmetics and Personal Care Products
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RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Antimicrobials																					
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RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Cosmetics and Personal Care Products																					
MATERIAL CONTENT NOTES: Electrical and mechanical components																							

RUBBER, SYNTHETIC EPDM

ID: 308064-28-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-02-11 03:03:26		
%: 0.5100 - 0.5200	GreenScreen: NoGS	RC: None	NANO: No	POLYMER ROLE: Cushioning
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
None found		No listings found on Additional Hazard Lists		
POLYMER TYPE: Elastomer				
AVERAGE MOLECULAR WEIGHT : >10,000 Da				

PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: 0%	
ADDITIONAL SUBSTANCES CONSIDERED: Yes	
POLYMER NOTES: This polymer has been reported in accordance to HPDC Special Conditions Policy for polymers with disclosed CAS numbers.	
ADDITIONAL NOTES: EPDM is an elastomer, used in Watherproof seals	
POLYVINYL CHLORIDE (PVC) (PRIMARY CASRN IS 9002-86-2)	ID: 93050-82-9

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-02-11 03:03:27		
#: 0.4300 - 0.4400	GreenScreen: LT-P1	RC: None	NANO: No	POLYMER ROLE: Structure component
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels		
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]		
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List		
		Precautionary list of substances recommended for avoidance		
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025		
		Red List substances to avoid in Living Building Challenge V4.0 projects		
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025		
		Avoidance of Organohalogens and Functionally Related Chemical Classes of Concern		

POLYMER TYPE: Thermoplastic	
AVERAGE MOLECULAR WEIGHT : >10,000 Da	
PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: 0%	
ADDITIONAL SUBSTANCES CONSIDERED: Yes	
POLYMER NOTES: This polymer has been reported in accordance to HPDC Special Conditions Policy for polymers with disclosed CAS numbers.	
ADDITIONAL NOTES: PVC is a thermoplastic polymer, used in coatings and insulation	
SILICON	ID: EN 573-3

HAZARD DATA SOURCE: Pharos Chemical and Materials Library				
%: 0.4100 - 0.4200	GreenScreen: MULTIPLE	RC: None	NANO: No	MATERIAL ROLE: Alloy element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening is not applicable to this Special Condition		
METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [EN 573-3]		
METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.		
ALLOYING ELEMENTS Silicon (Si) CASRN: 7440-21-3 Percentage: 0.43 % - 0.44 % Element Role: Alloy element GreenScreen Score: LT-UNK		
No listings found on Additional Hazard Lists		
MATERIAL CONTENT NOTES: Steel alloying element. Alloying element in metals.		

PALMITOYL ALANINE

ID: **56255-31-3**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2026-02-11 03:03:27**

%, **0.3600 - 0.3700**GreenScreen: **NoGS**RC: **None**NANO: **No**POLYMER ROLE: **Polymer species**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

POLYMER TYPE: Thermoplastic

AVERAGE MOLECULAR WEIGHT : >10,000 Da

PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: 0%

ADDITIONAL SUBSTANCES CONSIDERED: Yes

POLYMER NOTES: This polymer has been reported in accordance to [HPDC Special Conditions Policy](#) for polymers with disclosed CAS numbers.

ADDITIONAL NOTES: Nylon parts for durability. Used in steps, covers, and handrails.

NIOBIUM RUBIDIUM OXIDE (NBRBO3)

ID: **12059-51-7**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2026-02-11 03:03:28**

%, **0.3400 - 0.3500**GreenScreen: **NoGS**RC: **None**NANO: **No**POLYMER ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
POLYMER TYPE: Elastomer		
AVERAGE MOLECULAR WEIGHT : >10,000 Da		
PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: 0%		
ADDITIONAL SUBSTANCES CONSIDERED: Yes		
POLYMER NOTES: This polymer has been reported in accordance to HPDC Special Conditions Policy for polymers with disclosed CAS numbers.		
ADDITIONAL NOTES: NBR is an elastome used in sealing components		
PURINE(1H)-2,6-DIONE, 1,3-DIBUTYL-3,7-DIHYDRO-		ID: 2850-36-4
HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-02-11 03:03:28
?: 0.3100 - 0.3200	GreenScreen: NoGS	RC: None
	NANO: No	POLYMER ROLE: Structure component
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
POLYMER TYPE: Thermoset prepolymer (i.e. partially reacted)		
AVERAGE MOLECULAR WEIGHT : >10,000 Da		
PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: 0%		
ADDITIONAL SUBSTANCES CONSIDERED: Yes		
POLYMER NOTES: This polymer has been reported in accordance to HPDC Special Conditions Policy for polymers with disclosed CAS numbers.		
ADDITIONAL NOTES: Acetal polymer parts. Used in steps, covers, and handrails.		
CARBON		ID: EN 10130
HAZARD DATA SOURCE: Pharos Chemical and Materials Library		
?: 0.2700 - 0.2800	GreenScreen: MULTIPLE	RC: None
	NANO: No	MATERIAL ROLE: Alloy element
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening is not applicable to this Special Condition		

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [[EN 10130](#)]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

ALLOYING ELEMENTS

- Carbon (C)**
CASRN: 7440-44-0
Percentage: 0.24 % - 0.25 %
Element Role: Alloy element
GreenScreen Score: LT-UNK

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Antimicrobials

MATERIAL CONTENT NOTES: Steel carbon content. Alloying element in metals.

MOLYBDENUM

ID: **UNS M 99**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

%: **0.2100 - 0.2200** GreenScreen: **MULTIPLE** RC: **None** NANO: **No** MATERIAL ROLE: **Alloy element**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening is not applicable to this Special Condition		

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [[UNS M 99](#)]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

ALLOYING ELEMENTS

- Molybdenum (Mo)**
CASRN: 7439-98-7
Percentage: 0.22 % - 0.23 %
Element Role: Alloy element
GreenScreen Score: LT-UNK

No listings found on Additional Hazard Lists

MATERIAL CONTENT NOTES: Steel strengthening additive. Alloying element in metals.

LUBRICATING OILS

ID: **74869-22-0**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2026-02-11 3:03:25**

%: **0.1500 - 0.1600** GreenScreen: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Lubricant**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CAN	GHS - Australia	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
CAN	EU - REACH Annex XVII CMRs	Carcinogens: Category 1B
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025
		All Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025
		Cosmetics and Personal Care Products
SUBSTANCE NOTES: Applied for moving parts. This substance is a petroleum-derived to reduce friction		

ABSINTHIUM, EXT.

ID: 84929-19-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-02-11 03:03:28		
%: 0.0500 - 0.0600	GreenScreen: LT-P1	RC: None	NANO: No	POLYMER ROLE: Structure component
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institute (GSPI)		GSPI - Six Classes Precautionary List	
			Antimicrobials	
POLYMER TYPE: Thermoplastic				
AVERAGE MOLECULAR WEIGHT : >10,000 Da				
PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: 0%				
ADDITIONAL SUBSTANCES CONSIDERED: Yes				
POLYMER NOTES: This polymer has been reported in accordance to HPDC Special Conditions Policy for polymers with disclosed CAS numbers.				

ADDITIONAL NOTES: Plastic structural components commuly used for impact-resistant and rigid applications

STARCH (PRIMARY CASRN IS 9005-25-8)

ID: 2075820-73-2

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2026-02-11 3:03:25	
?: 0.0100 - 0.0200	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Binder
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
EXEMPT	European Union / European Commission (EU EC)		EU - REACH Exemptions	
			Exempted from REACH Annex IV listing due to intrinsic safety	
SUBSTANCE NOTES: Naturally derived polysaccharide used as biodegradable filler				

CELLULOSE ACETATE (PRIMARY CASRN IS 9004-35-7)

ID: 66419-14-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2026-02-11 3:03:26	
%: 0.0100 - 0.0200	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Structure component
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
None found		No listings found on Additional Hazard Lists		
SUBSTANCE NOTES: Paper-based components. Derived for plants				

BRASS

ID: EN 12164

HAZARD DATA SOURCE: Pharos Chemical and Materials Library				
?: 0.0100 - 0.0200	GreenScreen: MULTIPLE	RC: None	NANO: No	MATERIAL ROLE: Structure component
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
Hazard Screening is not applicable to this Special Condition				

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [[EN 12164](#)]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

ALLOYING ELEMENTS

- Iron (Fe)
CASRN: 7439-89-6
Percentage: 0.10 % - 0.11 %
Element Role: Alloy element
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

MATERIAL CONTENT NOTES: Used in fittings and connectors.

POMALIDOMIDE

ID: 19171-19-8

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-02-11 03:03:28**

%: **0.0100 - 0.0200** GreenScreen: **NoGS** RC: **None** NANO: **No** POLYMER ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

POLYMER TYPE: Thermoplastic

AVERAGE MOLECULAR WEIGHT : >10,000 Da

PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: 0%

ADDITIONAL SUBSTANCES CONSIDERED: Yes

POLYMER NOTES: This polymer has been reported in accordance to [HPDC Special Conditions Policy](#) for polymers with disclosed CAS numbers.

ADDITIONAL NOTES: Polyurethane components. Used in steps, covers, and handrails.

PENTAERYTHRITYL TETRASTEARATE

ID: 115-83-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-02-11 03:03:29**

%: **0.0100 - 0.0200** GreenScreen: **LT-UNK** RC: **None** NANO: **No** POLYMER ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

POLYMER TYPE: Thermoplastic

AVERAGE MOLECULAR WEIGHT : >10,000 Da

PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: 0%

ADDITIONAL SUBSTANCES CONSIDERED: Yes

POLYMER NOTES: This polymer has been reported in accordance to [HPDC Special Conditions Policy](#) for polymers with disclosed CAS numbers.

ADDITIONAL NOTES: Polyethylene for tubing. Used in steps, covers, and handrails.

CALCIUM CARBONATEID: 471-34-1

HAZARD DATA SOURCE:Pharos Chemical and Materials LibraryHAZARD SCREENING DATE:2026-02-11 3:03:26

%:0.0010 - 0.0020GreenScreen:BM-3RC:NoneNANO:NoSUBSTANCE ROLE:Filler

HAZARD TYPELIST NAME AND SOURCEWARNINGS

EYEGHS - New ZealandEye irritation category 2

ADDITIONAL LISTINGSLIST NAME AND SOURCENOTIFICATION

None foundNo listings found on Additional Hazard Lists

SUBSTANCE NOTES: Used as filler or coating. Minor residuals from manufacturing may be present.

LIGNINID: 9005-53-2

HAZARD DATA SOURCE:Pharos Chemical and Materials LibraryHAZARD SCREENING DATE:2026-02-11 3:03:27

%:0.0010 - 0.0020GreenScreen:NoGSRC:NoneNANO:NoSUBSTANCE ROLE:Binder

HAZARD TYPELIST NAME AND SOURCEWARNINGS

None foundNo warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGSLIST NAME AND SOURCENOTIFICATION

None foundNo listings found on Additional Hazard Lists

SUBSTANCE NOTES: Natural polymer additive found in plant cells

FIBER GLASS REINFORCED EPOXYID: Mixed Recycled Content

HAZARD DATA SOURCE:HPDC Special Conditions Policy

%:0.0010 - 0.0020GreenScreen:Not RequiredRC:NoneNANO:NoMATERIAL ROLE:Structure component

HAZARD TYPEAGENCY AND LIST TITLESWARNINGS

Hazard Screening is not applicable to this Special Condition

Tugela Escalator

HPD v3.0 created via HPDC Builder Page 17 of 20

INGREDIENT DESCRIPTION: Mixed recycled materials including recycled metals, plastics, and glass; composition varies by source, representing post-consumer and post-industrial recycling.

ANALYTICAL TESTING: The material was inventoried based on manufacturer and supplier documentation, including certifications of recycled content (post-consumer and post-industrial) and typical composition ranges. Where exact fractions were unavailable, standard values from databases and LCA references were used

BATCH VARIATION: Yes, Batch variation occurs due to the heterogeneous nature of recycled materials, differences in source streams (metal, plastic, glass), and variability in processing methods. The proportion of each material fraction can vary between production batches.

COUNTRY OF ORIGIN: España

MATERIAL CONTENT NOTES: Reinforced epoxy parts. Used for reinforced parts requiring high strength-to-weight ratio.

Exact fractions of metals, plastics, and glass are not available because the material is a blend of post-consumer and post-industrial recycled streams. Variability in source materials and processing prevents precise batch-level compositional data. Standard values from LCA databases and supplier attestations were used to represent the material in the inventory.
This disclosure does not provide information on the potential presence of hazardous substances which may be found in certain mixed recycled materials.

Section 3: 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	Environmental Product Declaration (EPD) by EPD International AB	
COMPLIANCE TYPE: Third-party certification CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: The International EPD® System COMPLIANCE DETAILS: COMPLIANCE SCOPE: Product APPLICABLE FACILITIES: Europe/North America/Latin America China/Asia Pacific COMPLIANCE URL: https://environdec.com/library/epd9098 COMPLIANCE NOTES: Verified EPD for Tugela escalators registered in The International EPD® System (EN15804). The official Environmental Product Declaration for the Velino escalator is valid until 2030-04-02	ISSUE DATE: 2024-09-12	EXPIRY DATE: 2030-04-02

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.

TUGELA ESCALATOR MANUFACTURER (OR GENERIC): TK ELEVATOR
HPD URL: No HPD Available ACCESSORY TYPE: Other CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Tugela escalator model, available in various lengths and capacities. No HPD published

Section 5: General Notes

Tugela Escalator by TK Elevator, standard model, designed for the safe transport of people. Available in multiple lengths and capacities. Currently, no Health Product Declaration (HPD) is published for this product.

The product is primarily composed of iron, aluminum, and technical plastics, selected for strength, durability, and weight optimization.

All materials and substances present are below HPD reporting thresholds

The product complies with applicable safety standards, escalator regulations and is manufactured considering sustainability and recyclability criteria.

For additional technical documentation or specifications, please contact TK Elevator directly.

MANUFACTURER INFORMATION

MANUFACTURER: **TK Elevator**
 ADDRESS: **33203**
Gijón, Asturias 33203
 COUNTRY: **Spain**

WEBSITE: **<http://www.tkelevator.com/>**
 CONTACT NAME: **Dr. Mario Mangas**
 TITLE: **Project Manager, ESG Escalator responsible**
 PHONE: **+34 639204183**
 EMAIL: **mario.mangas@tkelevator.com**

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible 1 (Possible Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS No GreenScreen.
BM-U Benchmark Unspecified (due to insufficient data)	

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

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

Inventory Methods:

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 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.