Health Product Declaration v2.2

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 23748

CLASSIFICATION: 08 79 00 Hardware Accessories

PRODUCT DESCRIPTION: Marray TEF Series Power Transfer Hinge is engineered to be used in the operation of access control and integrated locking systems. The uses of this product include, but are not limited to; electric locks, electric strikes, electric latch retraction exit devices, switch bars and other related access control and security devices. This device provides a secure and non-obvious way of transmitting power from the jamb side of the door, to the device needing power actuation.



Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

Nested Materials Method

C Basic Method

Threshold Disclosed Per

Material

Product

Threshold level

C 100 ppm

€ 1,000 ppm

C Per GHS SDS

C Other

Residuals/Impurities

Residuals/Impurities

Considered in 7 of 7 Materials

Explanation(s) provided

for Residuals/Impurities?

Yes ○ No

All Substances Above the Threshold Indicated Are:

○ Yes Ex/SC ⊙ Yes ○ No Characterized

% weight and role provided for all substances. Screened ○ Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with

results disclosed.

Identified C Yes Ex/SC C Yes € No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more

Special Condition did not follow guidance.

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

STRUCTURAL STEEL [STEEL NoGS LUBRICATING GREASES LT-1 |

CAN] HARDWARE STEEL [STEEL NoGS]

SC:ELECTRONICS;SMALLELECTRONICS COPPER WIRES [COPPER

LT-P1 | AQU | MUL SILVER ALLOY, AG, HG LT-1 | DEV | PBT] WIRE

JACKET [COPPER LT-P1 | AQU | MUL] ALTERNATIVE GREASE

UNDISCLOSED [2-BUTANONE, 2,2',2"-(0,0',0"-

(ETHENYLSILYLIDYNE)TRIOXIME) BM-1tp AMINOETHYL-

AMINOPROPYL-TRIMETHOXYSILANE LT-UNK INDEX NAME NOT YET

ASSIGNED NoGS SILICON DIOXIDE BM-1 | CAN 2-BUTANONE, 2,2',2"-

(O,O',O"-(METHYLSILYLIDYNE)TRIOXIME) LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen

Benchmark or List translator Score ... BM - 1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional

VOC emissions: UL Environmental Claim Validation - Recycled content

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

Yes No

PREPARER: Self-Prepared

VFRIFIFR:

VERIFICATION #:

SCREENING DATE: 2021-02-09 PUBLISHED DATE: 2021-02-10

EXPIRY DATE: 2024-02-09

Section 2: Content in Descending Order of Quantity

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

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

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

	STRUCTURAL STEEL	%: 75.5000 - 86.1000							
	PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIE	RESIDUALS AND IMPURITIES CONSIDERED: Yes			RIAL TYPE: Metal			
	RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below the 1000 ppm threshold								
OTHER MATERIAL NOTES: RESIDUALS AND IMPURITIES WERE CONSIDERED. Substances in this material are below the reportable threshold.									
	STEEL					ID: 12597-69-2			
	HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	nemical and Materials Library HAZARD SCREENING DATE: 202						
	%: 15.0000 - 17.0000	GS: NoGS	RC: UNK	NANO: No	SUBSTANCE ROLE	: Structure component			
	HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS						
	None found			No w	arnings found on HP	D Priority Hazard Lists			
	SUBSTANCE NOTES:								

LUBRICATING GREASES				ID: 74869-21		
HAZARD SCREENING METHOD): Pharos Chemical and Materials Library	HAZARD S	CREENING DATE:	2021-02-09		
%: 0.0200 - 0.0300	GS: LT-1	RC: UNK	NANO: No	SUBSTANCE ROLE: Lubricant		
HAZARD TYPE	AGENCY AND LIST TITLES	AGENCY AND LIST TITLES WARN		RNINGS		
CAN	EU - GHS (H-Statements)	НЗ	H350 - May cause cancer			
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man Carcinogen Category 1B - Presumed Carcinogen based on animal evidence H350 - May cause cancer				
CAN	EU - Annex VI CMRs			y 1B - Presumed Carcinogen based		
CAN	GHS - Australia			ancer		
SUBSTANCE NOTES:						

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below the 1000 ppm threshold

OTHER MATERIAL NOTES: STEEL - 12597.69-2 All substances in this material are below the reportable threshold.

SC:ELECTRONICS;SMALLELECTRONICS %: 3.5000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Electronic Component

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below the 1000 ppm threhold

OTHER MATERIAL NOTES: SpecialConditionApplied:Electronics All substances in this material are below the reportable threshold.

SUBSTANCE NOTES:

Brief Description: Wires and connectors used for hard wiring the door hinge into the building access control and power system.

COPPER WIRES %: 0.5000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below the 1000 ppm threshold

OTHER MATERIAL NOTES: Multi strand silver coated copper wire. All substances in this material are below the reportable threshold.

COPPER				ID: 7440-50-8
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD	SCREENING	DATE: 2021-02-09
%: 0.5000 - 0.6000	GS: LT-P1	RC: UNK	NANO: No	SUBSTANCE ROLE: Electronic component
HAZARD TYPE	AGENCY AND LIST TITLES	,	WARNINGS	
AQU	EU - GHS (H-Statements)		H411 - Toxic t	o aquatic life with long lasting effects
MUL	German FEA - Substances Hazardous Waters	to	Class 2 - Haza	ard to Waters

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARI	SCREENING	DATE: 2021-02-09
%: 0.1000 - 0.1000	GS: LT-1	RC: UN	K NANO: No	SUBSTANCE ROLE: Electronic component
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
DEV	CA EPA - Prop 65		Developmenta	al toxicity
PBT	US EPA - Toxics Release Inventory PB	STs	PBT	
РВТ	OSPAR - Priority PBTs & EDs & equiva	lent	PBT - Chemic	al for Priority Action

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL

MATERIAL TYPE: Electronic Component

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below the 1000 ppm threshold.

OTHER MATERIAL NOTES: STYLE PTFE UL 1371 TEFLON WIRE JACKET

Melting Point 327-372 °C (621-648 °F)

Flash Point (Method used) 530-550 °C (986-1022 °F), ASTM D1929 Auto Ignition temperature 520-560 °C (968-1040 °F), ASTM D1929

All substances in this material are below the reportable threshold.

COPPER		ID: 7440-50-8			
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-09			
%: 0.1000 - 0.1000	GS: LT-P1	RC: UNK NANO: No SUBSTANCE ROLE: Electronic component			
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
AQU EU - GHS (H-Statements)		H411 - Toxic to aquatic life with long lasting effects			
MUL	German FEA - Substances Hazardous Waters	to Class 2 - Hazard to Waters			
SUBSTANCE NOTES: PTFE jac	ket over silver coated wires				

ALTERNATIVE GREASE %: 0.2500 - 0.3000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and were determined to be below the 1000 ppm threshold

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

UNDISCLOSED %: 0.1000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below the 1000 ppm threshold

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

Used as a potting compound to provide strain relief for the wire bundle exiting the surface of the hinge on both leaves.

MSDS Number: 639915-00004

P333 + 313 skin irritant. May cause skin rash when applied (this is only applied in factory)

2-BUTANONE, 2,2',2''-(O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME)

ID: 2224-33-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-09

%: 0.1000 - 0.1000 GS: BM-1tp RC: UNK NANO: No SUBSTANCE ROLE: Adhesive

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Used as part of the component chemicals in the adhesive to keep wires from being pulled out of the hinge outbound hole and provide strain relief

AMINOETHYL-AMINOPROPYL-TRIMETHOXYSILANE

ID: 1760-24-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-09

%: 0.1000 - 0.1000 GS: LT-UNK RC: UNK NANO: No SUBSTANCE ROLE: Adhesive

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Used as a component chemical for the adhesive potting compound to keep the wires from being abraded or pulled from the outbound wire hole.

INDEX NAME NOT YET ASSIGNED

ID: 1980039-46-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-09

%: 0.1000 - 0.1000 GS: NoGS RC: UNK NANO: No SUBSTANCE ROLE: Adhesive

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Used as a component for the MASTER black silicon adhesive to ensure the outbound wires do not pull from the hinge leaf hole. Provides strain relief.

SILICON DIOXIDE ID: 7631-86-9

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE:		2021-02-09		
%: 0.0100 - 0.0200	GS: BM-1	RC: UNK	NANO: No	SUBSTANCE ROLE: Adhesive		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
CAN	GHS - Japan		Carcinogenicity - Category 1A [H350]			
CAN	GHS - Australia	H350i - May cause cancer by inhalation				

SUBSTANCE NOTES: Used to ensure wires are bonded to the hinge leaf on both sides and provide strain relief to the wire bundle.

A component of the MASTER black silicon adhesive

2-BUTANONE, 2,2',2"-(O,O',O"-(METHYLSILYLIDYNE)TRIOXIME)

ID: 22984-54-9

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCF	REENING DATE:	2021-02-09	
%: 0.0100 - 0.0200	GS: LT-UNK	RC: UNK	NANO: No	SUBSTANCE ROLE: Adhesive	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found		No warnings found on HPD Priority Hazard Lists			

SUBSTANCE NOTES: A component i used in the Master Black Silicon Adhesive



Section 3: Certifications and Compliance

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

VOC EMISSIONS

UL Environmental Claim Validation - Recycled content

CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: All Facilities ISSUE DATE: 2021-02- EXPIRY DATE:

CERTIFIER OR LAB: Self-Declared

09

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: Inherently non-emitting source per LEED



Section 4: Accessories

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

No accessories are required for this product.



Section 5: General Notes

This Health Product Declaration was prepared by utilizing available data regarding included materials and substances

MANUFACTURER INFORMATION

MANUFACTURER: Marray. Inc. **ADDRESS: 52 Laxalt Drive**

Carson City Nevada 89706, United States

WEBSITE: https://marray.com/electrified-hinges/tef2-4c/652-

us26d-satin-chrome-c62/

CONTACT NAME: Ray Zehrung

PHONE: 7752468003

TITI F. President

EMAIL: RAY@MARRAY.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.

LAN Land toxicity

NEU Neurotoxicity

MUL Multiple

KEY

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity EYE Eye irritation/corrosivity

GLO Global warming

NF Not found on Priority Hazard Lists **GEN** Gene mutation **OZO** Ozone depletion

PBT Persistent, bioaccumulative, and toxic

MAM Mammalian/systemic/organ toxicity

PHY Physical hazard (flammable or reactive)

REP Reproductive

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

UNK Unknown

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

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

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

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

BM-U Benchmark Unspecified (due to insufficient data)

LT-P1 List Translator Possible 1 (Possible Benchmark-1)

LT-1 List Translator 1 (Likely Benchmark-1)

LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the

information contained within the list did not result in a clear mapping

to a LT-1 or LTP1 score.)

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

NoGS No GreenScreen.

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 v2.1 is not:

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

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

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

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