

Medium carbon steel wire rod by GRUPO ACERERO

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 03 21 00

PRODUCT DESCRIPTION: MEDIUM CARBON STEEL WIRE HAS A CARBON CONTENT BETWEEN 0.20%-0.5%. THIS IS A POPULAR MATERIAL SUITABLE FOR NUMEROUS APPLICATIONS. BECAUSE OF ITS HIGHER CARBON CONTENT IT IS STRONGER AND SLIGHTLY LESS DUCTILE THAN LOW CARBON WIRE. THIS TYPE OF MATERIAL HAS FAIR FORMABILITY WILL TAKE MODERATE BENDING OR FLATTENING AND CAN BE ROLL THREADED. ITS STRENGTH IS PRIMARILY A FUNCTION OF ITS CARBON CONTENT INCREASING WITH CARBON AMOUNT.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities

Residuals/Impurities
Considered in 9 of 9 Materials

Explanation(s) provided
for Residuals/Impurities?
 Yes No

All Substances Above the Threshold Indicated Are:

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

Screened Yes Ex/SC Yes No
All substances screened using Priority Hazard Lists with
results disclosed.

Identified Yes Ex/SC Yes No
All substances disclosed by Name (Specific or Generic) and
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.

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

IRON [IRON LT-P1 | END GRAPHITE LT-UNK MANGANESE LT-P1 | END |
MUL | REP PHOSPHORUS BM-2 | PHY | MAM SILICON LT-UNK SULFUR,
ELEMENTAL LT-UNK | SKI] MANGANESE [MANGANESE LT-P1 | END |
MUL | REP] CARBON [GRAPHITE LT-UNK CRISTOBALITE (SIO2) LT-1 |
CAN IRON LT-P1 | END] CHROMIUM [CHROMIUM, METALLIC LT-P1 |
RES | END | SKI] NICKEL [NICKEL (METALLIC) LT-1 | RES | CAN | SKI |
MAM | MUL] SILICON [SILICON LT-UNK ALUMINUM LT-P1 | RES | PHY |
END ANTIMONY LT-1 | AQU | CAN ARSENIC, INORGANIC LT-1 | DEL | CAN |
PBT | AQU | MAM | END | MUL | GEN BORON LT-UNK COPPER LT-UNK
GERMANIUM LT-UNK INDIUM LT-UNK IRON LT-P1 | END OXYGEN, LIQUID
LT-UNK | PHY PHOSPHORUS BM-2 | PHY | MAM SULFUR, ELEMENTAL LT-
UNK | SKI TELLURIUM LT-P1 | REP TIN, ORGANIC LT-UNK] SULFUR [
SULFUR, ELEMENTAL LT-UNK | SKI ARSENIC, INORGANIC LT-1 | DEL |
CAN | PBT | AQU | MAM | END | MUL | GEN BENTONITE LT-UNK CHLORINE
LT-P1 | RES | AQU | PHY | SKI | EYE | MAM | MUL HYDROGEN SULFIDE LT-
P1 | AQU | PHY | MAM | END | MUL SELENIUM AND SELENIUM
COMPOUNDS LT-P1 | PBT | MAM | MUL | CAN TELLURIUM LT-P1 | REP]
PHOSPHORUS [PHOSPHORUS BM-2 | PHY | MAM ALUMINUM LT-P1 | RES
| PHY | END ARSENIC, INORGANIC LT-1 | DEL | CAN | PBT | AQU | MAM |
END | MUL | GEN BORON LT-UNK CALCIUM LT-P1 | PHY IRON LT-P1 | END
SILICON LT-UNK TOLUENE LT-1 | DEL | REP | PHY | MAM | SKI | END | MUL
] MOLYBDENUM [MOLYBDENUM LT-UNK GRAPHITE LT-UNK IRON LT-P1
| END NICKEL (METALLIC) LT-1 | RES | CAN | SKI | MAM | MUL NITROGEN
NoGS OXYGEN, LIQUID LT-UNK | PHY POTASSIUM LT-P1 | PHY | SKI
SILICON LT-UNK SODIUM LT-P1 | PHY | SKI]

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:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: Non Emitting Material

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: **2018-12-14**

PUBLISHED DATE: **2018-12-18**

EXPIRY DATE: **2021-12-14**



Section 2: Content in Descending Order of Quantity

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

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

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

IRON

#: 98.0200 - 98.4400

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Screened using the toxnet database: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~Tc9ulr:8>

OTHER MATERIAL NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~Tc9ulr:8>

IRON

ID: 7439-89-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 98.0200 - 98.4400

GS: LT-P1

RC: Both

NANO: No

ROLE: Base metal

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: This material is 94% post-consumer and 5% post-industrial recycled content

GRAPHITE

ID: 7440-44-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: Impurity/Residual

GS: LT-UNK

RC: None

NANO: No

ROLE: Impurity/Residual

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~Tc9ulr:8>

MANGANESE

ID: 7439-96-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: Impurity/Residual

GS: LT-P1

RC: None

NANO: No

ROLE: Impurity/Residual

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

REPRODUCTIVE

Japan - GHS

Toxic to reproduction - Category 1B

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~Tc9ulr:8>

PHOSPHORUS

ID: 7723-14-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

MAMMALIAN

US EPA - EPCRA Extremely Hazardous Substances

Extremely Hazardous Substances

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~Tc9ulr:8>

SILICON

ID: 7440-21-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~Tc9ulr:8>

SULFUR, ELEMENTAL

ID: 7704-34-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~Tc9ulr:8>

MANGANESE

#: **0.6000 - 0.9000**

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Screened using the toxnet database: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~u4pNoJ:1>

OTHER MATERIAL NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~u4pNoJ:1>

MANGANESE

ID: 7439-96-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 0.6000 - 0.9000

GS: LT-P1

RC: None

NANO: No

ROLE: Alloying element

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

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~u4pNoJ:1>

CARBON

#: 0.2800 - 0.3400

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Screened using the toxnet database: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~xJg2dJ:3>

OTHER MATERIAL NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~xJg2dJ:3>

GRAPHITE

ID: 7440-44-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 0.2800 - 0.3400

GS: LT-UNK

RC: None

NANO: No

ROLE: Alloying element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES:

CRISTOBALITE (SIO2)

ID: 14464-46-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: Impurity/Residual

GS: LT-1

RC: None

NANO: No

ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen

CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~xJg2dJ:3>

IRON ID: 7439-89-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-12-14		
%: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~xJg2dJ:3>

CHROMIUM %: 0.2000 - 0.2000

PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes
RESIDUALS AND IMPURITIES NOTES: Screened using the toxnet database: https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~aea1op:1	
OTHER MATERIAL NOTES: https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~aea1op:1	

CHROMIUM, METALLIC ID: 7440-47-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-12-14		
%: 0.2000 - 0.2000	GS: LT-P1	RC: None	NANO: No	ROLE: Alloying element
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization		

NICKEL

%: 0.2000 - 0.2000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Screened using the toxnet database: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~rOXZNp:1>

OTHER MATERIAL NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~rOXZNp:1>

NICKEL (METALLIC)

ID: 7440-02-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

%: 0.2000 - 0.2000

GS: LT-1

RC: None

NANO: No

ROLE: Alloying element

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

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~rOXZNp:1>

SILICON

%: 0.1800 - 0.2400

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

OTHER MATERIAL NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>

SILICON

ID: 7440-21-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.1800 - 0.2400**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Alloying element**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

ALUMINUM

ID: 7429-90-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Impurity/Residual**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H261 - In contact with water releases flammable gases

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>

ANTIMONY

ID: 7440-36-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Impurity/Residual**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CHRON AQUATIC

EU - GHS (H-Statements)

H411 - Toxic to aquatic life with long lasting effects

CANCER

MAK

Carcinogen Group 2 - Considered to be carcinogenic for man

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>

ARSENIC, INORGANIC

ID: 7440-38-2

#: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group A - Human Carcinogen
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>

BORON

ID: **7440-42-8**

#: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>

COPPER

ID: 7440-50-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**

%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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No hazards found

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>**GERMANIUM**

ID: 7440-56-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**

%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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No hazards found

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>**INDIUM**

ID: 7440-74-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**

%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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No hazards found

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>**IRON**

ID: 7439-89-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**

%: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
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SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>**OXYGEN, LIQUID**

ID: 7782-44-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H270 - May cause or intensify fire; oxidiser (GAS ONLY)

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>

PHOSPHORUS

ID: **7723-14-0**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>

SULFUR, ELEMENTAL

ID: **7704-34-9**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

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

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>

TELLURIUM

ID: **13494-80-9**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>

TIN, ORGANIC

ID: **7440-31-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

No hazards found

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1>

SULFUR

#: **0.0400 - 0.0400**

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **Screened using the toxnet database: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~T104PJ:1>**

OTHER MATERIAL NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~T104PJ:1>

SULFUR, ELEMENTAL

ID: **7704-34-9**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.0400 - 0.0400**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Alloying element**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

SUBSTANCE NOTES:

ARSENIC, INORGANIC

ID: **7440-38-2**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Impurity/Residual**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

DEVELOPMENTAL

G&L - Neurotoxic Chemicals

Developmental Neurotoxicant

CANCER

US EPA - IRIS Carcinogens

(1986) Group A - Human Carcinogen

CANCER

IARC

Group 1 - Agent is Carcinogenic to humans

CANCER

CA EPA - Prop 65

Carcinogen

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

US NIH - Report on Carcinogens

Known to be a human Carcinogen

PBT

OR DEQ - Priority Persistent Pollutants

Priority Persistent Pollutant - Tier 1

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life

CHRON AQUATIC

EU - GHS (H-Statements)

H410 - Very toxic to aquatic life with long lasting effects

MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~T104PJ:1>

BENTONITE

ID: **1302-78-9**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

No hazards found

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~T104PJ:1>

CHLORINE

ID: **7782-50-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rr) - irritant-induced
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life M = 100
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H270 - May cause or intensify fire; oxidiser (GAS ONLY)
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
MAMMALIAN	US EPA - EPCRA Extremely Hazardous	Extremely Hazardous Substances

RESPIRATORY AOEC - Asthmagens Asthmagen (Rr) - irritant-induced

ACUTE AQUATIC EU - GHS (H-Statements) H400 - Very toxic to aquatic life M = 100

PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements) H270 - May cause or intensify fire; oxidiser (GAS ONLY)

SKIN IRRITATION EU - GHS (H-Statements) H315 - Causes skin irritation

EYE IRRITATION EU - GHS (H-Statements) H319 - Causes serious eye irritation

MAMMALIAN EU - GHS (H-Statements) H331 - Toxic if inhaled

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

MAMMALIAN US EPA - EPCRA Extremely Hazardous Extremely Hazardous Substances

PHYSICAL HAZARD (REACTIVE)

Korea - GHS

H270 - May cause or intensify fire; oxidizer

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~T104PJ:1>**HYDROGEN SULFIDE**

ID: 7783-06-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**

%: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H220 - Extremely flammable gas
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~T104PJ:1>**SELENIUM AND SELENIUM COMPOUNDS**

ID: 7782-49-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**

%: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~T104PJ:1>**TELLURIUM**

ID: 13494-80-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**

%: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~T104PJ:1>

PHOSPHORUS

%: **0.0300 - 0.0300**

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **Screened using the toxnet database: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~zBEWlp:1>**

OTHER MATERIAL NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~zBEWlp:1>

PHOSPHORUS

ID: **7723-14-0**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

%: **0.0300 - 0.0300**

GS: **BM-2**

RC: **None**

NANO: **No**

ROLE: **Alloying element**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances

SUBSTANCE NOTES:

ALUMINUM

ID: **7429-90-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

%: **Impurity/Residual**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~zBEWlp:1>

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**

%: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group A - Human Carcinogen
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~zBEWlp:1>HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**

%: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

CALCIUM

ID: 7440-70-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**%: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~zBEWlp:1>**IRON**

ID: 7439-89-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**%: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~zBEWlp:1>**SILICON**

ID: 7440-21-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**%: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~zBEWlp:1>**TOLUENE**

ID: 108-88-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**%: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female

PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
DEVELOPMENTAL	EU - GHS (H-Statements)	H361d - Suspected of damaging the unborn child
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~zBEWlp:1>

MOLYBDENUM

%: 0.0300 - 0.0300

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Screened using the toxnet database: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~uzqw8g:1>

OTHER MATERIAL NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~uzqw8g:1>

MOLYBDENUM

ID: 7439-98-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

%: 0.0300 - 0.0300

GS: LT-UNK

RC: None

NANO: No

ROLE: Alloying element

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

GRAPHITE

ID: 7440-44-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

%: Impurity/Residual

GS: LT-UNK

RC: None

NANO: No

ROLE: Impurity/Residual

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~uzqw8g:1>

IRON

ID: 7439-89-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

Role: **Impurity/Residual**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~uzqw8g:1>

NICKEL (METALLIC)

ID: **7440-02-0**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

Role: **Impurity/Residual**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Impurity/Residual**

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

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~uzqw8g:1>

NITROGEN

ID: **7727-37-9**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

Role: **Impurity/Residual**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

OXYGEN, LIQUID

ID: 7782-44-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**%: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H270 - May cause or intensify fire; oxidiser (GAS ONLY)

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~uzqw8g:1>**POTASSIUM**

ID: 7440-09-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**%: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~uzqw8g:1>**SILICON**

ID: 7440-21-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**%: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~uzqw8g:1>**SODIUM**

ID: 7440-23-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**%: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~uzqw8g:1>

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

Non Emitting Material

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: **Self Declared**

APPLICABLE FACILITIES: **Eje 122 esq Av CFE Zona
Industrial, SLP Mexico**

12-17

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **This is a non-emitting material. No testing has been conducted.**

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



MANUFACTURER INFORMATION

MANUFACTURER: **GRUPO ACERERO**
 ADDRESS: **Eje 122 esq. Av. CFE Zona Industrial**
San Luis Potosi S.L.P 78395, Mexico
 WEBSITE: **http://grupoacerero.com.mx**

CONTACT NAME: **Rodolfo Olivares Robles**
 TITLE: **Engineer**
 PHONE: **8-70-79-46**
 EMAIL: **rolivares@fonderia.com**

KEY

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

Hazard Types

AQU Aquatic toxicity	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)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

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

Other Terms

Inventory Methods:

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.