

CLASSIFICATION: 03 21 00

**PRODUCT DESCRIPTION:** REBAR (SHORT FOR REINFORCING BAR) COLLECTIVELY KNOWN AS REINFORCING STEEL AND REINFORCEMENT STEEL IS A STEEL BAR USED AS A TENSION DEVICE IN REINFORCED CONCRETE AND REINFORCED MASONRY STRUCTURES TO STRENGTHEN AND HOLD THE CONCRETE IN COMPRESSION. THEIR BASIC FUNCTION IS THE CREATION OF STRUCTURAL ELEMENTS IN CONCRETE. DUE TO THEIR GREAT DUCTILITY THEY ARE SO EASY TO BEND AND CUT SO AS TO FIT INTO THE MEASUREMENTS AND DESIGN OF THE FACILITY OR BUILDING WHERE THEY ARE GOING TO BE USED. THE REBAR MANUFACTURED BY GRUPO ACERERO MEETS THE HIGHEST QUALITY ATTACHED TO MEXICAN STANDARD NMX-B-506-CANACERO-2011 AND USA STANDARD ASTM-A615M AND ASTM-A706M. FOR ALL THE STEEL GRADES QUALITY CERTIFICATE ENSURING COMPLIANCE ACCORDING TO THE RELEVANT STANDARD IS ISSUED. PRODUCT: GRADE 42NMX-B-506-CANACERO-2011 IN THE FOLLOWING SIZES (3) 3/8 (4) 1/2 (5) 5/8 (6)3/4 (8) 1 (10) 1 1/4 (12) 1 1/2 IS HIGH CARBON STEEL REBAR. PRODUCT: GRADE 52 NMX-B-506-CANACERO-2011 IN THE FOLLOWING SIZES (3) 3/8 (4) 1/2 (5) 5/8 (6)3/4 (8) 1 (10) 1 1/4 (12) 1 1/2 IS CONSIDERED HIGH CARBON STEEL REBAR. FOR ADDITIONAL PRODUCTS PLEASE CONTACT THE MANUFACTURER.

## Section 1: Summary

## Nested Method / Product Threshold

### CONTENT INVENTORY

#### Inventory Reporting Format

- Nested Materials Method
- Basic Method

#### 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.*

#### Threshold Disclosed Per

- Material
- Product

### 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.

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:

**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 ] 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 ] CHROMIUM [ CHROMIUM, METALLIC LT-P1 | RES | END | SKI ] NICKEL [ NICKEL (METALLIC) LT-1 | RES | CAN | SKI | MAM | MUL ] SULFUR [ SULFUR, ELEMENTAL LT-UNK | SKI SELENIUM AND SELENIUM COMPOUNDS LT-P1 | PBT | MAM | MUL | CAN TELLURIUM LT-P1 | REP 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 ]

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 ] 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 ]

### 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  
Multi-attribute: Type III Environmental Product Declaration

### 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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### IRON

#: 97.4100 - 98.0230

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Screened using th etoxnet 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

#: 100.0000 - 100.0000

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

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: UNK

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: UNK

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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>		
%: <b>Impurity/Residual</b>	GS: <b>BM-2</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>		
%: <b>Impurity/Residual</b>	GS: <b>LT-UNK</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>		
%: <b>Impurity/Residual</b>	GS: <b>LT-UNK</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
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**

%: 0.8500 - 1.2600

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

%: 0.8500 - 1.2600

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**

%: 0.3800 - 0.4600

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

%: 0.3800 - 0.4600

GS: LT-UNK

RC: UNK

NANO: No

ROLE: Alloying element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

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

NANO: No

ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>		
%: <b>Impurity/Residual</b>	GS: <b>LT-P1</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
<b>ENDOCRINE</b>	<b>TEDX - Potential Endocrine Disruptors</b>	<b>Potential Endocrine Disruptor</b>		

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

**SILICON** %: 0.2000 - 0.2700

PRODUCT THRESHOLD: <b>100 ppm</b>	RESIDUALS AND IMPURITIES CONSIDERED: <b>Yes</b>
RESIDUALS AND IMPURITIES NOTES: <b>Screened using the toxnet database: <a href="https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1">https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1</a></b>	
OTHER MATERIAL NOTES: <a href="https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1">https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~isWdUV:1</a>	

**SILICON** ID: 7440-21-3

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>		
%: <b>0.2000 - 0.2700</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Alloying element</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
<b>No hazards found</b>				

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: **UNK**                      NANO: **No**                      ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagens (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: **UNK**                      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

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

%: **Impurity/Residual**                      GS: **LT-1**                      RC: **UNK**                      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

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

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

#: **Impurity/Residual**      GS: **LT-UNK**      RC: **UNK**      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: **UNK**      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>

## 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: **UNK** 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>

## 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: **UNK** 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>

## 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: **UNK** 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/~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: **UNK** 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: **UNK** 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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>		
%: <b>Impurity/Residual</b>	GS: <b>LT-UNK</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
<b>SKIN IRRITATION</b>	<b>EU - GHS (H-Statements)</b>	<b>H315 - Causes skin irritation</b>		

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

### TELLURIUM

ID: 13494-80-9

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>		
%: <b>Impurity/Residual</b>	GS: <b>LT-P1</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
<b>REPRODUCTIVE</b>	<b>Japan - GHS</b>	<b>Toxic to reproduction - Category 1B</b>		

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

### TIN, ORGANIC

ID: 7440-31-5

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>		
%: <b>Impurity/Residual</b>	GS: <b>LT-UNK</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
<b>No hazards found</b>				

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

### CHROMIUM

%: 0.2000 - 0.2500

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: Screened using th etoxnet 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**

#: **Impurity/Residual** GS: **LT-P1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

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

SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~aea1op:1>

## 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: **UNK** NANO: **No** ROLE: **Alloying element**

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/~rOXZNp:1>

## SULFUR

%: 0.0500 - 0.0600

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

%: 0.0500 - 0.0600      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:

### 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: UNK      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: **UNK** 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>

## 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: **UNK** 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

**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: **UNK** 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/~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: **UNK** 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 Substances	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: **UNK** 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>

## MOLYBDENUM

%: 0.0500 - 0.0500

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

%: 0.0500 - 0.0500

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: UNK

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

%: Impurity/Residual

GS: LT-P1

RC: UNK

NANO: No

ROLE: Impurity/Residual

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

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**

#: **Impurity/Residual** GS: **LT-1** RC: **UNK** 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**

#: **Impurity/Residual** GS: **NoGS** RC: **UNK** 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>



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

%: <b>Impurity/Residual</b>	GS: <b>LT-UNK</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
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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**

%: <b>Impurity/Residual</b>	GS: <b>LT-P1</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
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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**

%: <b>Impurity/Residual</b>	GS: <b>LT-UNK</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
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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**

%: <b>Impurity/Residual</b>	GS: <b>LT-P1</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
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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>

## PHOSPHORUS

%: 0.0450 - 0.0450

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

%: 0.0450 - 0.0450

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: UNK

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>

### 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: UNK

NANO: No

ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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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>

## BORON

ID: 7440-42-8

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

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

#: **Impurity/Residual**      GS: **LT-UNK**      RC: **UNK**      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>

## 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: **UNK**      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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>	
%: <b>Impurity/Residual</b>	GS: <b>LT-P1</b>	RC: <b>UNK</b>	NANO: <b>No</b> ROLE: <b>Impurity/Residual</b>

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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>	
%: <b>Impurity/Residual</b>	GS: <b>LT-UNK</b>	RC: <b>UNK</b>	NANO: <b>No</b> ROLE: <b>Impurity/Residual</b>

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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2018-12-14</b>	
%: <b>Impurity/Residual</b>	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>No</b> ROLE: <b>Impurity/Residual</b>

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	Class 2 - Hazard to Waters

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REPRODUCTIVE

Japan - GHS

Toxic to reproduction - Category 1A

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SUBSTANCE NOTES: <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~zBEWlp: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 Zona Industrial, SLP Mexico**

**12-17**

CERTIFICATE URL:

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

### MULTI-ATTRIBUTE

### Type III Environmental Product Declaration

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE: **2023-**

CERTIFIER OR LAB: **EPD**

APPLICABLE FACILITIES: **Eje 122 esq.Av.CFE Zona Industrial, San Luis Potosi S.L.P 78395**

**10-10**

**09-21**

**International**

CERTIFICATE URL:

**<https://www.environdec.com/Detail/?Epd=13786>**

CERTIFICATION AND COMPLIANCE NOTES:

## Section 4: Accessories

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

No accessories are required for this product.

## Section 5: General Notes



## 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

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

### GreenScreen (GS)

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