







# Safety Data Sheet

## **Manganese (7439-96-5)**

ACGIH: 0.2 mg/m<sup>3</sup> TWA  
OSHA: 1 mg/m<sup>3</sup> TWA (fume)  
3 mg/m<sup>3</sup> STEL (fume)  
5 mg/m<sup>3</sup> Ceiling  
NIOSH: 1 mg/m<sup>3</sup> TWA (fume)  
3 mg/m<sup>3</sup> STEL

## **Silicon (7440-21-3)**

OSHA: 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)  
NIOSH: 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable dust)

## **Molybdenum (7439-98-7)**

ACGIH: 10 mg/m<sup>3</sup> TWA (inhalable fraction); 3 mg/m<sup>3</sup> TWA (respirable fraction)  
OSHA: 10 mg/m<sup>3</sup> TWA

## **Phosphorus (7723-14-0)**

ACGIH: 0.1mg/m<sup>3</sup> TWA  
OSHA: 1 mg/m<sup>3</sup> TWA (fume)  
NIOSH: 1 mg/m<sup>3</sup> TWA (fume)

## **Engineering Measures**

None needed under normal product use conditions.

## **Personal Protective Equipment: Respiratory**

None needed under normal product use conditions.

## **Personal Protective Equipment: Hands**

None needed under normal product use conditions.

## **Personal Protective Equipment: Eyes**

None needed under normal product use conditions.

## **Personal Protective Equipment: Skin and Body**

None needed under normal product use conditions.



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## **Carbon (7440-44-0)**

Oral LD50 Rat >10000 mg/kg

## **Phosphorus (7723-14-0)**

Oral LD50 Rat 3g/kg

### **Potential Health Effects: Skin Corrosion Property/Stimulativeness**

None anticipated under normal product handling conditions.

### **Potential Health Effects: Eye Critical Damage/ Stimulativeness**

None anticipated under normal product handling conditions.

### **Potential Health Effects: Ingestion**

None anticipated under normal product handling conditions.

### **Potential Health Effects: Inhalation**

None anticipated under normal product handling conditions.

### **Respiratory Organs Sensitization/Skin Sensitization**

Exposure to components of this product may cause an allergic skin reaction.

### **Generative Cell Mutagenicity**

This product is not reported to have any mutagenic effects.

### **Carcinogenicity**

#### **A: General Product Information**

Exposure to components of this product may cause cancer. Under normal product handling, no exposure is anticipated.

#### **B: Component Carcinogenicity**

##### **Chromium (7440-47-3)**

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 49 [1990] (listed under Chromium and Chromium compounds); Supplement 7 [1987] (Group 3 (not classifiable))

##### **Nickel (7440-02-0)**

ACGIH: A5 - Not Suspected as a Human Carcinogen

NIOSH: potential occupational carcinogen

NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)

IARC: Monograph 49 [1990]; Supplement 7 [1987] (Group 2B (possibly carcinogenic to humans))

### **Reproductive Toxicity**

This product is not reported to have any reproductive toxicity effects.







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Component	CAS	CA	MA	MN	NJ	PA	RI
Chromium	7440-47-3	Yes	Yes	Yes	Yes	Yes	No
Nickel	7440-02-0	Yes	Yes	No	Yes	Yes	No
Manganese	7439-96-5	Yes	Yes	Yes	Yes	Yes	No
Silicon	7440-21-3	No	Yes	Yes	Yes	Yes	No
Molybdenum	7439-98-7	Yes	Yes	Yes	Yes	Yes	No
Phosphorus	7723-14-0	Yes	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

### Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS	Minimum Concentration
Chromium	7440-47-3	0.1 %
Nickel	7440-02-0	0.1 %

### Additional Regulatory Information

### Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Chromium	7440-47-3	Yes	DSL	EINECS
Nickel	7440-02-0	Yes	DSL	EINECS
Manganese	7439-96-5	Yes	DSL	EINECS
Silicon	7440-21-3	Yes	DSL	EINECS
Molybdenum	7439-98-7	Yes	DSL	EINECS
Phosphorus	7723-14-0	Yes	DSL	EINECS
Carbon	7440-44-0	Yes	DSL	EINECS

# Safety Data Sheet

<b>* * * Section 16 - Other Information * * *</b>
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## Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

## Literature References

None

## Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

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