### Safety Data Sheet Eureka Elec Ni Base

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Identification

Product form : Article

Product name : Stick Electrodes Nickel Base A, CHD, 62, 82, 60Ni, 99Ni, 718

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Welding industry.

1.3. Details of the supplier of the safety data sheet

Eureka Welding Alloys 2000 E. Avis Dr.

Madison Heights, MI 48045 - USA

T 800-962-8560

rkamen@eurekaweldingalloys.com

1.4. Emergency telephone number

Emergency number : 1-800-962-8560

### SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

### Classification (GHS-US)

Not classified

### 2.2. Label elements

### **GHS-US labeling**

No labeling applicable

### 2.3. Other hazards

Other hazards not contributing to the

classification

Exposure to metal dusts and oxides may cause metal fume fever. Metal fume fever is a temporary flu-like condition characterized by chills, fever, muscle aches and pains, nausea and vomiting. Typically the symptoms appear within a few hours after exposure and subside within 2-3 days with no permanent effects. Inhalation of fumes or vapors may cause respiratory irritation.

### 2.4. Unknown acute toxicity (GHS US)

- 3 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
- 3 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
- 3 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Chromium	(CAS No) 7440-47-3	<= 35	Not classified
Limestone	(CAS No) 1317-65-3	<= 20	Not classified
Calcium fluoride	(CAS No) 7789-75-5	<= 20	Not classified
Molybdenum	(CAS No) 7439-98-7	<= 20	Not classified
silicic acid, sodium salt	(CAS No) 1344-09-8	<= 20	Skin Corr. 1B, H314 STOT SE 3, H335
Potassium silicate	(CAS No) 1312-76-1	<= 20	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Carbon	(CAS No) 7440-44-0	<= 7	Not classified
Manganese	(CAS No) 7439-96-5	<= 6	Not classified
Niobium	(CAS No) 7440-03-1	<= 6	Not classified

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Tungsten	(CAS No) 7440-33-7	<= 5	Flam. Sol. 1, H228 Self-heat. 2, H252
Titanium	(CAS No) 7440-32-6	<= 5	Not classified
Vanadium	(CAS No) 7440-62-2	<= 3	Not classified
Potassium titanate	(CAS No) 12030-97-6	<= 3	Not classified
Bentonite	(CAS No) 1302-78-9	<= 3	Not classified
Silicon dioxide (cristobalite)	(CAS No) 14808-60-7	<= 3	Carc. 1A, H350
Cobalt	(CAS No) 7440-48-4	<= 2	Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351
Iron oxide red	(CAS No) 1309-37-1	<= 2	Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

First-aid measures after skin contact : Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. In the

event of contact with molten product: Cool skin rapidly with cold water after contact with molten

product.

First-aid measures after eye contact : Hot material: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical

assistance for mechanical removal of this material from the eye. Cold material: Flush eyes with plenty of water. Seek medical attention if irritation persists. Use of flush fluid, other than water,

is not recommended.

First-aid measures after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal

use.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Dust from this product may cause irritation to the respiratory tract. Inhalation of fumes may

cause metal fume fever.

Symptoms/injuries after skin contact : Heated product causes burns.

Symptoms/injuries after eye contact : Excessive dust production may cause minor eye irritation. Heated product causes burns.

Chronic symptoms : Excessive or prolonged inhalation of fumes may cause metal fume fever.

### 4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry chemical. Foam. Sand. Water fog. Use extinguishing media appropriate for

. . . . . **.** 

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear fire/flame resistant/retardant clothing. Wear a self-contained breathing apparatus.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid creating or spreading dust.

### 6.1.1. For non-emergency personnel

No additional information available

### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Avoid release to the environment. Prevent dispersion.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.

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#### 6.4. Reference to other sections

Section 7: safe handling. Section 8: personal protective equipment. Section 13: disposal information.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid breathing dust, fume, gas. Ensure good ventilation of the work station. Handle in

accordance with good industrial hygiene and safety procedures.

Hygiene measures : Always wash your hands immediately after handling this product, and once again before

leaving the workplace. Contaminated work clothing should not be allowed out of the workplace.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store in correctly labelled containers.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

**OSHA** 

**OSHA** 

3.1. Control pa	rameters	
Manganese (7439-	96-5)	
ACGIH	ACGIH TWA (mg/m³)	0.02 mg/m³
ACGIH	Remark (ACGIH)	CNS impair; A4
OSHA	OSHA PEL (Ceiling) (mg/m³)	5 mg/m³
Limestone (1317-6	5-3)	
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Carbon (7440-44-0		
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Tungsten (7440-33	-7)	
ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (soluble compounds) 5 mg/m³ (insoluble compounds)
ACGIH	ACGIH STEL (mg/m³)	3 mg/m³ (soluble compounds) 10 mg/m³ (insoluble compounds)
Chromium (7440-4	7-3)	
ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³
OSHA	Remark (OSHA)	(Chromium metal and insol. salts (as Cr)
Cobalt (7440-48-4)		
ACGIH	ACGIH TWA (mg/m³)	0.02 mg/m³
ACGIH	Remark (ACGIH)	Pneumonitis
OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m³
Molybdenum (7439	9-98-7)	
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (unsoluble, inhalable) 3 mg/m³ (unsoluble, respirable) 0.5 mg/m³ (soluble, inhalable)
Silicon dioxide (cr	istobalite) (14808-60-7)	
ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³
ACGIH	Remark (ACGIH)	(respirable dust)

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250 mppcf

(3) See Table Z-3.

OSHA PEL (TWA) (ppm)

Remark (OSHA)

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Iron oxide red (1309-37-1)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
ACGIH	Remark (ACGIH)	Pneumoconiosis
OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³

### 8.2. Exposure controls

Appropriate engineering controls : Use engineering controls to eliminate or reduce exposures below exposure limits. Ensure good

ventilation of the work station.

Materials for protective clothing : Flame retardant protective clothing.

Hand protection : Wear thermal protective gloves when working around hot surfaces. Eye protection : Wear goggles with suitable filter lenses when use is cutting/welding.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Use air-purifying respirator

equipped with particulate filtering cartridges.

Environmental exposure controls : Avoid release to the environment. Emissions from ventilation or work process equipment

should be checked to ensure they comply with requirements of environmental protection

legislation.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Metallic solid.
Color : Silver blue
Odor : odorless

Odor threshold : No data available pH : Not applicable

Melting point : 1260 °C

Freezing point No data available No data available Boiling point Flash point No data available Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) No data available Explosive limits : No data available Explosive properties : No data available Oxidizing properties : No data available No data available Vapor pressure Relative density No data available Relative vapor density at 20 °C No data available

Specific gravity / density : 8 g/cm³
Solubility : Insoluble

Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

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### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Do not store with incompatible materials.

### 10.5. Incompatible materials

Acids. Bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

metallic oxides.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Likely routes of exposure : Dermal; During use, welding fumes are released with potential for inhalation exposure.

Acute toxicity : Not classified

Acute toxicity	: Not classified	
Manganese (7439-96-5)		
LD50 oral rat	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 5.14 mg/kg	
Limestone (1317-65-3)		
LD50 oral rat	6450 mg/kg	
ATE US (oral)	6450.000 mg/kg bodyweight	
Calcium fluoride (7789-75-5)		
LD50 oral rat	> 2000 mg/kg no mortality at this level	
LC50 inhalation rat (mg/l)	> 5.07 mg/l/4h no mortality at this level	
Tungsten (7440-33-7)		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 5.4 lb/h	
Chromium (7440-47-3)		
LD50 oral rat	> 5000 mg/kg OECD Guideline 420	
LC50 inhalation rat (mg/l)	> 5.1 mg/l/4h OECD Guideline 403	
Cobalt (7440-48-4)		
LD50 oral rat	7150 mg/kg OECD Guideline 401	
LD50 dermal rat	> 2000 mg/kg OECD Guideline 402 as tricobalt tetraoxide	
ATE US (oral)	7150.000 mg/kg	
Vanadium (7440-62-2)		
LD50 oral rat	> 2000 mg/kg	
Molybdenum (7439-98-7)		
LD50 oral rat	4233 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	5.1 mg/l/4h	
ATE US (oral)	4233.000 mg/kg	
ATE US (dust, mist)	5.100 mg/l/4h	
Titanium (7440-32-6)		
LD50 oral rat	> 5000 mg/kg	
Silicic acid, sodium salt (1344-09-8)		
LD50 oral rat	3400 mg/kg	
LD50 dermal rat	> 5000 mg/kg	
LC50 inhalation rat (mg/l)	> 2.06 mg/l/4h read-across Potassium silicate solution	
ATE US (oral)	3400.000 mg/kg bodyweight	
Bentonite (1302-78-9)		
LD50 oral rat	> 5000 mg/kg	
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Bentonite (1302-78-9)	
LD50 dermal rabbit	> 2000 mg/kg no mortality
LC50 inhalation rat (mg/l)	> 200 mg/l/4h
Niobium (7440-03-1)	
LD50 dermal rat	> 2000 mg/kg
Iron oxide red (1309-37-1)	
LD50 oral rat	> 10000 mg/kg
Potassium silicate (1312-76-1)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 2.06 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Chromium (7440-47-3)	3 - Not classifiable
IARC group  National Toxicology Program (NTP) Status	Not listed in carcinogenicity class
<b>0,</b> 0 ( ,	Not listed in carcinogenicity class
Cobalt (7440-48-4)	2D. Dassibly assissancia to humana
IARC group	2B - Possibly carcinogenic to humans
Bentonite (1302-78-9)	
IARC group	Not listed in carcinogenicity class
National Toxicology Program (NTP) Status	Not listed in carcinogenicity class
Silicon dioxide (cristobalite) (14808-60-7)	
IARC group	1 - Carcinogenic to humans , Inhalation of dust
Iron oxide red (1309-37-1)	
IARC group	3 - Not classifiable
National Toxicology Program (NTP) Status	Not listed in carcinogenicity class
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
	· Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Irritation to eyes, skin and respiratory tract. Exposure to metal dusts and oxides may cause metal fume fever. Metal fume fever is a temporary flu-like condition characterized by chills, fever, muscle aches and pains, nausea and vomiting. Typically the symptoms appear within a few hours after exposure and subside within 2-3 days with no permanent effects.
	Prolonged overexposure may cause ulceration of the skin and perforation of the nasal septum, dermatitis and pneumonia.
	Carcinogenic to humans on inhalation: Quartz. Chromium VI compounds.
Symptoms/injuries after inhalation	: Dust from this product may cause irritation to the respiratory tract. Inhalation of fumes may cause metal fume fever.
Symptoms/injuries after skin contact	: Heated product causes burns.
Symptoms/injuries after eye contact	Excessive dust production may cause minor eye irritation. Heated product causes burns.
Chronic symptoms	: Excessive or prolonged inhalation of fumes may cause metal fume fever.
SECTION 12: Ecological information	

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Manganese (7439-96-5)			
LC50 fish 1 > 3.6 mg/l			
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Bioaccumulative potential

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> 1.6 mg/l  3.6 mg/l  1.7 mg/l  > 200 mg/l  > 100 mg/kg > 100 mg/l  > 200 mg/l  > 200 mg/l  > 9.8 mg/l		
1.7 mg/l  > 200 mg/l  > 100 mg/kg > 100 mg/l  > 200 mg/l  200 mg/l		
> 200 mg/l  > 100 mg/kg > 100 mg/l  > 200 mg/l  200 mg/l		
> 100 mg/kg > 100 mg/l > 200 mg/l 200 mg/l		
> 100 mg/kg > 100 mg/l > 200 mg/l 200 mg/l		
> 100 mg/l  > 200 mg/l 200 mg/l		
> 100 mg/l  > 200 mg/l 200 mg/l		
> 100 mg/l  > 200 mg/l 200 mg/l		
200 mg/l		
200 mg/l		
200 mg/l		
·		
7 - 5.5 mg/l		
275 mg/l		
53.6 mg/l as cobalt dichloride		
31.1 mg/l 28 d as cobalt dichloride		
609 mg/l		
> 1000 mg/l		
> 19.5 mg/l		
> 100 mg/l		
20000 mg/l		
Silicic acid, sodium salt (1344-09-8)		
1108 mg/l 96 h		
1700 mg/l 48 h		
EC50 Daphnia 1 1700 mg/l 48 h  Bentonite (1302-78-9)		
8 (8 - 19) g/l		
> 100 mg/l		
> 146 mg/l		
> 146 mg/l		
207 mg/l		
Not readily biodegradable.		
Silicic acid, sodium salt (1344-09-8)  Persistence and degradability  Not established.		
Not established.		
2.3. Bioaccumulative potential		
Limestone (1317-65-3)		
Does not biaccumulate significantly.		
< 73		
Not expected to bioaccumulate.		
Hot expedied to bioaccumulate.		

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This product is not bioaccumulating.

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Potassium silicate	(1312-76-1)
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Bioaccumulative potential This product is not bioaccumulating.

#### 12.4. Mobility in soil

Stick Electrodes Nickel Base A, CHD, 62, 82, 60Ni, 99Ni, 718		
	Mobility in soil	Not mobile.

#### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste disposal recommendations : Collect as much as possible in a clean container for (preferable) reuse or disposal. Dispose in a

safe manner in accordance with local/national regulations.

### **SECTION 14: Transport information**

### Department of Transportation (DOT)

In accordance with DOT

Not considered a dangerous good for transport regulations

#### TDG

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

### Manganese (7439-96-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

### Limestone (1317-65-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Calcium fluoride (7789-75-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Carbon (7440-44-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Tungsten (7440-33-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Chromium (7440-47-3)

Subject to reporting requirements of United States SARA Section 313

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Cobalt (7440-48-4)

Subject to reporting requirements of United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Vanadium (7440-62-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

### Molybdenum (7439-98-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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#### Titanium (7440-32-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Silicic acid, sodium salt (1344-09-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Bentonite (1302-78-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Silicon dioxide (cristobalite) (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Niobium (7440-03-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Iron oxide red (1309-37-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Potassium silicate (1312-76-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### **CANADA**

### Manganese (7439-96-5)

Listed on the Canadian DSL (Domestic Sustances List)

### Limestone (1317-65-3)

Listed on the Canadian DSL (Domestic Sustances List)

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

Listed on the Canadian DSL (Domestic Sustances List)

### Tungsten (7440-33-7)

Listed on the Canadian DSL (Domestic Sustances List)

### Chromium (7440-47-3)

Listed on the Canadian DSL (Domestic Sustances List)

### Cobalt (7440-48-4)

Listed on the Canadian DSL (Domestic Sustances List)

### Vanadium (7440-62-2)

Listed on the Canadian DSL (Domestic Sustances List)

### Molybdenum (7439-98-7)

Listed on the Canadian DSL (Domestic Sustances List)

### Titanium (7440-32-6)

Listed on the Canadian DSL (Domestic Sustances List)

### Silicic acid, sodium salt (1344-09-8)

Listed on the Canadian DSL (Domestic Sustances List)

### Bentonite (1302-78-9)

Listed on the Canadian DSL (Domestic Sustances List)

### Silicon dioxide (cristobalite) (14808-60-7)

Listed on the Canadian DSL (Domestic Sustances List)

### Niobium (7440-03-1)

Listed on the Canadian DSL (Domestic Sustances List)

### Iron oxide red (1309-37-1)

Listed on the Canadian DSL (Domestic Sustances List)

### Potassium silicate (1312-76-1)

Listed on the Canadian DSL (Domestic Sustances List)

WHMIS Classification Classified in accordance with the HPR.

### **EU-Regulations**

No additional information available

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### National regulations

### Manganese (7439-96-5)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

### Limestone (1317-65-3)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on Taiwan National Chemical Inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).

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

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

### Tungsten (7440-33-7)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

### Chromium (7440-47-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

### Cobalt (7440-48-4)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

### Vanadium (7440-62-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

### Molybdenum (7439-98-7)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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#### Titanium (7440-32-6)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### Silicic acid, sodium salt (1344-09-8)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on Taiwan National Chemical Inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).

### Silicon dioxide (cristobalite) (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on Taiwan National Chemical Inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).

### Niobium (7440-03-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Not listed on Phillipines Inventory of Chemicals and Chemical Substances (PICCS)

### Iron oxide red (1309-37-1)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

### Potassium silicate (1312-76-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

### 15.3. US State regulations

Cobalt (7440-48-4)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	

### Manganese (7439-96-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New York - Right to Know List of Hazardous Chemicals

U.S. - Minnesota - Hazardous Substance List

### Limestone (1317-65-3)

U.S. - New Jersey - Right to Know Hazardous Substance List

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### Tungsten (7440-33-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

### Chromium (7440-47-3)

- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania List of Hazardous Substances

### Cobalt (7440-48-4)

- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Right to Know List of Hazardous Chemicals

#### Vanadium (7440-62-2)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Right to Know List of Hazardous Chemicals

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

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Right to Know List of Hazardous Chemicals

#### Titanium (7440-32-6)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Right to Know List of Hazardous Chemicals

### Silicon dioxide (cristobalite) (14808-60-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

### Iron oxide red (1309-37-1)

- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List

### **SECTION 16: Other information**

Indication of changes : GHS classification information. Revised sections: 1 - 16.

Revision date : 09/15/2015

Data sources : ACGIH (American Conference of Government Industrial Hygienists).

European Chemicals Agency (ECHA) Registered Substances list.

European Standards: Personal Protective Equipment; accessed at:

http://ec.europa.eu/enterprise/policies/european-standards/harmonised-standards/personal-

protective-equipment/index en.htm.

Internal Company test data.

US National Library of Medicine National Institutes of Health Haz-Map. Accessed at

http://hazmap.nlm.nih.gov

Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists).

ATE: Acute Toxicity Estimate.

CAS (Chemical Abstracts Service) number.

EC50: Environmental Concentration associated with a response by 50% of the test population

GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

LD50: Lethal Dose for 50% of the test population. LOAEL: Lowest Observed Adverse Effect Level.

NOEC: No Observable Effect Concentration. PBT: Persistent, Bioaccumulative, Toxic.

SDS: Safety Data Sheet.

TSCA: Toxic Substances Control Act. TWA: Time Weighted Average.

vPvB: Very Persistent and Very Bioaccumulative.

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### Full text of H-phrases:

Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Carc. 1A	Carcinogenicity Category 1A
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Sol. 1	Flammable solids Category 1
Met. Corr. 1	Corrosive to metals Category 1
Resp. Sens. 1	Respiratory sensitisation Category 1
Self-heat. 2	Self-heating substances and mixtures Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H228	Flammable solid
H252	Self-heating in large quantities; may catch fire
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if
	inhaled
H335	May cause respiratory irritation
H350	May cause cancer
H351	Suspected of causing cancer
H411	Toxic to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

SDS prepared by: The Redstone Group, LLC 6077 Frantz Rd. Suite 206 Dublin, OH USA 43017 T 614-923-7472

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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