

# Safety Data Sheet

## \*\*\* Section 1 - Product and Company Identification \*\*\*

**Material Name: NuSmile Pre-Contoured Stainless Steel Crowns**

**Date Effective: 5/14/2020**

### Manufacturer Information

NuSmile Ltd.  
3315 West 12th St.  
Houston, TX 77088

Phone: 713-861-0033  
Fax: 713-861-1722

Email: Info@nusmile.com

## \*\*\* Section 2 - Hazards Identification \*\*\*

The product as manufactured is an article as defined by OSHA. Under normal product handling and use conditions, no hazards are anticipated. The following classification information is applicable to the components in the product.

### GHS Classification:

Skin Sensitization - Category 1

Carcinogenicity - Category 1B

Hazardous to the Aquatic Environment Acute - Category 1

### GHS LABEL ELEMENTS

#### Symbol(s)



#### Signal Word

Danger

#### Hazard Statements

This product when used under normal product handling and use conditions in accordance with NuSmile's Instruction for Use, should not present health hazard. Incorrect use or handling of product may present potential health and safety hazard.

#### Precautionary Statements

Prevention

None.

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**Response**

Not Applicable.

**Storage**

No storage requirements necessary.

**Disposal**

No disposal regulations applicable.

**\*\*\* Section 3 - Composition / Information on Ingredients \*\*\***

CAS #	Component
7440-47-3	Chromium
7440-02-0	Nickel
7439-96-5	Manganese
7440-21-3	Silicon
7439-98-7	Molybdenum
7440-48-4	Phosphorus
7440-44-0	Carbon

**\*\*\* Section 4 - First Aid Measures \*\*\*****First Aid: Eyes**

No health effects expected.

**First Aid: Skin**

This products has approximate 8-14% nickel content. Allergic reaction may occur in individuals highly sensitive to nickle.

**First Aid: Ingestion**

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

**First Aid: Inhalation**

No health effects expected.

**\*\*\* Section 5 - Fire Fighting Measures \*\*\*****General Fire Hazards**

Not Applicable

**Hazardous Combustion Products**

Not Applicable

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## Extinguishing Media

Not Applicable.

## Unsuitable Extinguishing Media

None

## Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

### \*\*\* Section 6 - Accidental Release Measures \*\*\*

## Recovery and Neutralization

No special containment procedures needed.

## Materials and Methods for Clean-Up

None.

## Emergency Measures

None

## Personal Precautions and Protective Equipment

None

## Environmental Precautions

Avoid release to the environment.

## Prevention of Secondary Hazards

None

### \*\*\* Section 7 - Handling and Storage \*\*\*

## Handling Procedures

No special handling needed.

## Storage Procedures

No special storage needed.

## Incompatibilities

Not Determined.

### \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

## Component Exposure Limits

### Chromium (7440-47-3)

ACGIH: 0.5 mg/m3 TWA

OSHA: 1 mg/m3 TWA

NIOSH: 0.5 mg/m3 TWA

### Nickel (7440-02-0)

ACGIH: 1.5 mg/m3 TWA (inhalable fraction)

OSHA: 1 mg/m3 TWA

NIOSH: 0.015 mg/m3 TWA

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## **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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## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	Silver	<b>Odor:</b>	None
<b>Physical State:</b>	Solid	<b>pH:</b>	NA
<b>Vapor Pressure:</b>	ND	<b>Vapor Density:</b>	ND
<b>Boiling Point:</b>	ND	<b>Melting Point:</b>	ND
<b>Solubility (H2O):</b>	ND	<b>Specific Gravity:</b>	>1
<b>Evaporation Rate:</b>	ND	<b>VOC:</b>	ND
<b>Octanol/H2O Coeff.:</b>	ND	<b>Flash Point:</b>	ND
<b>Flash Point Method:</b>	ND	<b>Upper Flammability Limit (UFL):</b>	ND
<b>Lower Flammability Limit (LFL):</b>	ND	<b>Burning Rate:</b>	ND
<b>Auto Ignition:</b>	ND		

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

This is a stable material.

### Hazardous Reaction Potential

Will not occur.

### Conditions to Avoid

None

### Incompatible Products

Not Determined

### Hazardous Decomposition Products

Not Determined

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Toxicity

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - LD50/LC50

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

Oral LD50 Rat >9000 mg/kg

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

Oral LD50 Rat 9 g/kg

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

Oral LD50 Rat 3160 mg/kg

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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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## Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any single exposure specific target organ toxicity effects.

## Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any repeated exposure specific target organ toxicity effects.

## Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

<b>*** Section 12 - Ecological Information ***</b>
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## Ecotoxicity

### A: General Product Information

Components of this product may be very toxic to aquatic life.

### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

<b>Nickel (7440-02-0)</b>	<b>Conditions</b>
<b>Test &amp; Species</b>	>100 mg/L
96 Hr LC50 Brachydanio rerio	1.3 mg/L [semi-static]
96 Hr LC50 Cyprinus carpio	10.4 mg/L [static]
96 Hr LC50 Cyprinus carpio	0.18 mg/L
72 Hr EC50 Pseudokirchneriella subcapitata	0.174 - 0.311 mg/L [static]
96 Hr EC50 Pseudokirchneriella subcapitata	>100 mg/L
48 Hr EC50 Daphnia magna	1 mg/L [Static]
48 Hr EC50 Daphnia magna	

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## Persistence/Degradability

No information available for the product.

## Bioaccumulation

No information available for the product.

## Mobility in Soil

No information available for the product.

## \* \* \* Section 13 - Disposal Considerations \* \* \*

## Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

## \* \* \* Section 14 - Transportation Information \* \* \*

## DOT Information

Shipping Name: Not Regulated.

## \* \* \* Section 15 - Regulatory Information \* \* \*

## Regulatory Information

### US DOT Information

Shipping Name: Not Regulated

### US Federal Regulations

#### Component Analysis

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

SARA 313: 1.0 % de minimis concentration

CERCLA: 5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

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

SARA 313: 0.1 % de minimis concentration

CERCLA: 100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

#### State Regulations

#### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:



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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

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<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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