Safety Data Sheet

This product is defined as an article as per the Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200(b)(6)(v)). As defined in this Standard:

'Article' means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and which does not pose a physical hazard or health risk to employees.

When used under reasonable conditions and in accordance with the directions for use, the product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier

Stainless Steel Crowns

Product Identification Numbers

70-2004-5914-0	70-2004-5915-7	70-2004-5916-5	70-2004-5917-3	70-2004-5918-1
70-2004-5919-9	70-2004-5920-7	70-2004-5921-5	70-2004-5922-3	70-2004-5923-1
70-2004-5924-9	70-2004-5925-6	70-2004-5926-4	70-2004-5927-2	70-2004-5928-0
70-2004-5929-8	70-2004-5930-6	70-2004-5931-4	70-2004-5932-2	70-2004-5933-0
70-2004-5934-8	70-2004-5935-5	70-2004-5936-3	70-2004-5937-1	70-2004-6992-5
70-2004-6995-8	70-2010-2770-6	70-2010-2771-4	70-2010-2772-2	70-2010-2773-0
70-2010-2774-8	70-2010-2775-5	70-2010-2776-3	70-2010-2777-1	70-2010-2778-9
70-2010-2779-7	70-2010-2780-5	70-2010-2781-3	70-2010-2782-1	70-2010-2783-9
70-2010-2784-7	70-2010-2785-4	70-2010-2786-2	70-2010-2787-0	70-2010-2788-8
70-2010-2789-6	70-2010-2790-4	70-2010-2791-2	70-2010-2792-0	70-2010-2793-8
70-2010-2794-6	70-2010-2795-3	70-2010-2796-1	70-2010-2797-9	70-2010-2798-7
70-2010-2799-5	70-2010-2800-1	70-2010-2801-9	70-2010-2802-7	70-2010-2803-5
70-2010-2804-3	70-2010-2805-0	70-2010-2806-8	70-2010-2807-6	70-2010-2808-4
70-2010-2809-2	70-2010-2810-0	70-2010-2811-8	70-2010-2812-6	70-2010-2813-4
70-2010-2814-2	70-2010-2815-9	70-2010-2816-7	70-2010-2817-5	

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Dental crowns

Restrictions on use
For use by dental professionals only.

1.3. Supplier's details

Address: KCI Medical India Private Limited, S - 327, Greater Kailash - II, New Delhi, Delhi, 110048, India
Telephone: 1-855-423-6725
E Mail: psops_supportteam@solventum.com
Website: , Solventum India Company.

1.4. Emergency telephone number
CHEMTREC 1-800-424-9300 OR 1-703-527-3887, Contract number# 1015211

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture
This product is considered to be an article and is exempt from GHS classification.

2.2. Label elements
Signal Word
Not applicable.

Symbols
Not applicable

Pictograms
Not applicable

2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Iron	7439-89-6	67 - 75
Chromium	7440-47-3	17 - 20
Nickel	7440-02-0	8 - 13
Manganese	7439-96-5	0 - 2
Silicon	7440-21-3	0 - 1
Copper	7440-50-8	0 - 0.75

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

Skin contact
Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If swallowed
Do not induce vomiting. Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable Extinguishing media
Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
None known.	During combustion.

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Ventilate the area with fresh air.

6.2. Environmental precautions
Avoid release to the environment.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling
A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

7.2. Conditions for safe storage including any incompatibilities
Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
CAS NO S7439965A	7439-96-5	ACGIH	TWA(as Mn, inhalable fraction):0.1 mg/m3	A4: Not class. as human carcin
CAS NO S7439965B	7439-96-5	ACGIH	TWA(as Mn, respirable fraction):0.02 mg/m3	A4: Not class. as human carcin
Nickel	7440-02-0	ACGIH	TWA(inhalable fraction):1.5 mg/m3	A5: Not suspected human carcin
Chromium	7440-47-3	ACGIH	TWA(as Cr(0), inhalable fraction):0.5 mg/m3	
COPPER, DUSTS AND MISTS, AS CU	7440-50-8	ACGIH	TWA(as Cu dust or mist):1 mg/m3	
COPPER, FUME AS CU	7440-50-8	ACGIH	TWA(as Cu, fume):0.2 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required. Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety glasses with side shields.

Skin/hand protection
See Section 7.1 for additional information on skin protection.

Respiratory protection

Respiratory protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Color	Metallic Silver
Odor	Moderate Floral , Slight Solvent
Odour threshold	*Not applicable.*
pH	*Not applicable.*
Melting point/Freezing point: NA	*No data available.*

Boiling point/Initial boiling point/Boiling range	*Not applicable.*
Flash point	*Not applicable.*
Evaporation rate	*Not applicable.*
Flammability	Not applicable.
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	*Not applicable.*
Relative Vapor Density	*Not applicable.*
Density	*Not applicable.*
Relative density	*Not applicable.*
Water solubility	Nil
Solubility- non-water	*Not applicable.*
Partition coefficient: n-octanol/water	*Not applicable.*
Autoignition temperature	*Not applicable.*
Decomposition temperature	*Not applicable.*
Kinematic Viscosity	*Not applicable.*
Volatile organic compounds (VOC)	*Not applicable.*
Percent volatile	*Not applicable.*
VOC less H2O & exempt solvents	*Not applicable.*
Molecular weight	*No data available.*

Particle Characteristics	*Not applicable.*

SECTION 10: Stability and reactivity

10.1 Reactivity
This material is considered to be non reactive under normal use conditions

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
None known.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient

classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation
No known health effects.

Skin contact
Contact with the skin during product use is not expected to result in significant irritation.

Eye contact
Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion
No known health effects.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Iron	Dermal		LD50 estimated to be > 5,000 mg/kg
Iron	Ingestion	Rat	LD50 30,000 mg/kg
Nickel	Dermal		LD50 estimated to be > 5,000 mg/kg
Nickel	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.55 mg/l
Nickel	Ingestion	Rat	LD50 > 9,000 mg/kg
Manganese	Dermal		LD50 estimated to be > 5,000 mg/kg
Manganese	Ingestion	Rat	LD50 > 9,000 mg/kg
Silicon	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silicon	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.08 mg/l
Silicon	Ingestion	Rat	LD50 3,160 mg/kg
Copper	Dermal	Rat	LD50 > 2,000 mg/kg
Copper	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.11 mg/l
Copper	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Iron	Rabbit	No significant irritation
Nickel	Rabbit	Minimal irritation
Silicon	Rabbit	No significant irritation
Copper	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Iron	Rabbit	No significant irritation
Nickel	Rabbit	Mild irritant
Silicon	Rabbit	Mild irritant
Copper	Rabbit	Mild irritant

Sensitization:

Skin Sensitisation

Name	Species	Value
Nickel	Human	Sensitising

Respiratory Sensitisation
For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity
For the component/components, either no data are currently available or the data are not sufficient for classification.

Carcinogenicity

Name	Route	Species	Value
Nickel	Inhalation	similar compounds	Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects
For the component/components, either no data are currently available or the data are not sufficient for classification.

Target Organ(s)

Specific Target Organ Toxicity - single exposure
For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Nickel	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.001 mg/l	13 weeks

Aspiration Hazard
For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:
Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Iron	7439-89-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Chromium	7440-47-3	N/A	Data not available or insufficient for classification	N/A	N/A	n/a
Nickel	7440-02-0	Fathead minnow	Analogous Compound	96 hours	LC50	0.4 mg/l
Nickel	7440-02-0	Green algae	Analogous Compound	72 hours	ErC50	0.147 mg/l
Nickel	7440-02-0	Water flea	Estimated	48 hours	EC50	0.068 mg/l
Manganese	7439-96-5	Activated sludge	Experimental	3 hours	NOEC	1,000 mg/l
Manganese	7439-96-5	Green algae	Experimental	72 hours	EC50	4.5 mg/l
Manganese	7439-96-5	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
Manganese	7439-96-5	Water flea	Experimental	48 hours	EC50	>100 mg/l
Manganese	7439-96-5	Green algae	Experimental	72 hours	NOEC	2.5 mg/l
Manganese	7439-96-5	Water flea	Experimental	8 days	NOEC	1.7 mg/l
Silicon	7440-21-3	Green algae	Estimated	72 hours	EC50	250 mg/l
Silicon	7440-21-3	Green algae	Estimated	72 hours	EC10	228 mg/l
Copper	7440-50-8	Green algae	Analogous Compound	72 hours	ErC50	0.1049 mg/l
Copper	7440-50-8	Water flea	Analogous Compound	48 hours	EC50	0.0126 mg/l
Copper	7440-50-8	Zebra Fish	Analogous Compound	96 hours	LC50	0.0117 mg/l
Copper	7440-50-8	Fathead minnow	Analogous Compound	32 days	EC10	0.0059 mg/l
Copper	7440-50-8	Green algae	Analogous Compound	N/A	NOEC	0.022 mg/l
Copper	7440-50-8	Water flea	Analogous Compound	7 days	NOEC	0.004 mg/l
Copper	7440-50-8	Activated sludge	Analogous Compound	N/A	EC50	7 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Iron	7439-89-6	Data not available-insufficient	N/A	N/A	N/A	N/A
Chromium	7440-47-3	Data not available-insufficient	N/A	N/A	N/A	N/A
Nickel	7440-02-0	Data not available-insufficient	N/A	N/A	N/A	N/A
Manganese	7439-96-5	Data not available-	N/A	N/A	N/A	N/A

		insufficient				
Silicon	7440-21-3	Data not available-insufficient	N/A	N/A	N/A	N/A
Copper	7440-50-8	Data not available-insufficient	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Iron	7439-89-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Chromium	7440-47-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Nickel	7440-02-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Manganese	7439-96-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicon	7440-21-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Copper	7440-50-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other Adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility.

SECTION 14: Transport Information

Not hazardous for transportation.

Air Transport (IATA)Regulations

UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: Not applicable

Marine Transport (IMDG)
UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable

Subsidiary Risk Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status
Contact 3M for more information.

Applicable Environmental, Health and Safety Regulations
The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules
Chromium
Copper
Nickel

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:
The product is non-hazardous as per MSIHC Rules,1989.

SECTION 16: Other information

NFPA Hazard Classification
Health: 0 **Flammability:** 0 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:
Section 1: Product identification numbers information was modified.

DISCLAIMER: The information in this Safety Data Sheet (SDS) is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into India, you are responsible to comply with all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

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