Safety Data Sheet

Bioclear Metal Instruments

1. Identification

Product identifier used on the label

Clark Explorer, Sculpting Point, Curved Sculpting Paddle, MicroHemostat, Scalpel Handle, Curved Micro Pliers, Matrix Sculpting Scissors, TwinRing Forceps, Push-Pull

Recommended use: See IFU provided by Bioclear

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company Information:

MANUFACTURER/DISTRIBUTOR
Bioclear Matrix Systems
3802 South Warner Street, Suite A
Tacoma, WA 98409
USA

PHONE NUMBERS
Product Information 1-855-712-5327

Other means of identification

Component Materials: AISI 304 and AISI 420

2. Hazards Identification

Classification: Solid

Signal Word: Non Hazardous

BIOCLEAR

Hazard Statement: Solid metallic products are generally classified as “articles” and do not constitute a hazardous material in solid form under the definitions of OSHA Hazard Communication Standard 29 CFR 1910.1200.

Any articles manufactured from these solid products would be generally classified as non-hazardous. Subsequent operations such as cutting, grinding, milling, welding or processing in any other manner may produce potentially hazardous dust or fumes which may be inhaled, swallowed or come in contact with skin or eyes. Inhaling dusts, fumes or mists generated during manufacturing processes may be hazardous to your health. This material may have a light coating of oil for rust prevention.

Precautionary Statements:

Wear personal protective equipment when required.

Gloves should be worn when processing.

Face/eye protection should be worn when processing.

Do not breathe dust/fumes when processing.

In case of inadequate ventilation wear respiratory protection.

EU Main Hazards - Not classified as hazardous.

Routes of Entry - None for product as supplied.

Health Effects – Eyes - Sharp edges on solid products may cause cuts or lacerations. Contains nickel which may cause skin sensitization on contact.

Health Effects – Skin - Sharp edges on solid products may cause cuts or lacerations.

Health Effect – Ingestion - Ingestion is not a route of exposure under normal conditions of use.

Health Effects – Inhalation – Inhalation is not a route of exposure under normal conditions of use.

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3. Composition / Information on Ingredients

AISI 304

Component	CAS No.	Concentration
Iron	7439-89-6 231-096-4	> 45 %
Carbon	7440-44-0 231-153-3	< 0.25 %
Chromium	7440-47-3 231-157-5	16 - 26 %
Copper	7440-50-8 231-159-6	<0.75 %
Manganese	7439-96-5 231-105-1	<2 %
Molybdenum	7439-98-7 231-107-2	<3 %
Nitrogen	7727-37-9 231-783-9	< 0.11 %
Nickel	7440-02-0 231-111-4	<22 %
Niobium	7440-03-1 231-113-5	< 1 %
Phosphorus	7723-14-0 231-768-7	< 0.04 %
Sulfur	7704-34-9 231-722-6	< 0.03 %

Silicon	7440-21-3 231-130-8	<1.5 %
Aluminum	7429-90-5 231-072-3	<3.0 %
Titanium	7440-32-6 231-142-3	<0.8 %

AISI 420

Component	CAS No.	Concentration
Iron	7439-89-6	Base
Chromium	7740-47-3	1.5 - 18.0
Molybdenum	7439-98-7	0.0 - .750
Nickel	7440-02-0	0.0 - 0.25
Manganese	7439-96-5	0.0 - 1.00
Carbon	7440-44-0	0.0 – 1.20
Silicon	7740-21-3	0.0 – 1.00
Copper	7440-50-8	0.0 - 0.20
Phosphorous	7723-14-0	0.0 - .040
Sulfur	7704-34-9	0.0 - 0.03

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First-Aid Measures

Steel in its present state is not likely to present any acute or chronic health effects. However, during processing such as cutting, grinding, milling, or welding, fumes or dust may be emitted that may cause irritations, difficulty in breathing or allergic skin reactions.

Eye Contact: If processing, flush immediately with running water to remove particles. Keep eye wide open while rinsing. Get medical attention if irritation persists.

Skin Contact: Seek medical help for serious cuts or lacerations or if irritation from contact with dusts persists.

Inhalation: Not typically a route of exposure unless processing. Move to fresh air. If condition continues, consult a physician

Ingestion: Not typically a route of exposure. Do not induce vomiting. Consult a physician if large quantities have been ingested.

5. Fire-Fighting Measures

Flash Point – Nonflammable. No Explosion Hazard

Extinguishing Media - For molten metal use dry powder or sand. Do not use water on molten metal. Use extinguishing media appropriate for surrounding materials.

Unusual Fire and Explosion Hazards - May release hazardous fumes during a fire if melting point is reached.

Protective Equipment for Fire Fighting - Fire fighters should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes.

6. Accidental release measures

No specialized clean up procedures needed

For spills of dusts or small particles use vacuum or wet sweep methods. Avoid contact with skin and eyes. Place in suitable container for disposal. Dispose of waste materials in accordance with all federal, state and local regulations. Avoid release to waterways.

7. Handling and Storage

Handling: Avoid sharp edges or heated material. Avoid dust particles when machining.

Storage: No special storage requirements

When processing, use in well ventilated area and use local exhaust ventilation. Avoid inhaling dust and fumes. Avoid contact with eyes, skin and clothing. Store away from acids.

8. Exposure Controls/Personal Protection

When machining – good ventilation is recommended to keep airborne concentration of dust and fumes at acceptable levels.

Eye/Face Protection: Wear safety glasses when cutting or grinding. Face shields when welding or burning.

Respiratory Protection: Wear NIOSH approved dust/mist/fume respirator when welding or burning.

Hand Protection: Wear gloves when handling sharp edges

Other Protective Equipment: Use appropriate protective clothing as required such as fire retardant clothes or aprons when welding or burning

9. Physical and Chemical Properties

Physical state	Solid	Flash Point	N/A
Flammable limit	N/A	Evaporation Rate	N/A
Odor	Odorless	Flammability	Nonflammable
Odor threshold	N/A	Explosive limits	N/A
Vapor pressure	N/A	Vapor density	N/A
Vapor density	N/A	Relative density	7.86
Melting point	1530 C / 2786 F	Partition coefficient	No Data

Solubility	Not Soluble	Auto-ignition temp.	No Data
Boiling Point	N/A	Decomposition temp.	No Data

10. Stability and Reactivity

Stability: Stable under normal storage conditions Hazardous Reaction Potential: Will not occur Conditions to avoid: None

Hazardous decomposition products: NA Incompatible Products: Strong acids

11. Toxicological information

Lethal Dose/ Concentration: None established

Mutagenicity: NA

Teratogenticity: NA

Reproductive effects: Chronic exposure to manganese dust may cause reproductive disorders.

Carcinogenic: Not found to be carcinogenic by NTP, IARC, or OSHA in its present state.

Acute Toxicity: No relevant studies identified.

Chronic Toxicity/Carcinogenicity: Welding fumes: IARC Group 2B carcinogen (possibly carcinogenic to humans). Nickel: IARC Group 2B carcinogen (possibly carcinogenic to humans), NTP: Anticipated Carcinogen. Contact with dust/fume from processing may cause respiratory sensitization (nickel) and skin sensitization (nickel, chromium, copper). Chronic exposure to ingredients contained in dust/fume from processing may cause adverse effects to the lungs, liver, kidneys and blood.

Genotoxicity: No relevant studies identified.

(Note: fumes/dusts/mists from processing this material may be carcinogenic if inhaled over long periods of time)

12. Ecological Information

No adverse ecological effects

Mobility: No relevant studies identified.

Persistence/Degradability: No relevant studies identified.

Bio-accumulation: No relevant studies identified.

Ecotoxicity: No relevant studies identified.

13. Disposal considerations

Waste Disposal: Recycle scrap materials through scrap dealer. Dispose of non-cyclable material in accordance with local, state, and federal regulations.

14. Transport Information

Not regulated – no special transport instructions

15. Regulatory Information

This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200 however dusts and fumes from this product may be hazardous and require protection to comply with applicable federal, state and local laws and regulations.

16. Other Information

Prepared by Bioclear Matrix Systems

Information included in the Safety Data Sheet is based on data provided from sources believed to be accurate. No warranty or guaranty of any kind is expressed or implied regarding the accuracy or correctness of this data.

The actual use of this product is beyond our control, and it is each employer's responsibility to assure the safety and health of their employees. Precision-Marshall Steel Company will not assume liability arising out of the use of this product by others

END OF DATA SHEET