



SAFETY DATA SHEET

H13 V2 Rods

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR).

1. Identification

Product identifier

Product name H13 V2 Rods
 Product number BMD-MP2004

Recommended use and restrictions on use

Recommended use Product is used as part of direct metal 3D printing.
 Restriction on use Use only for intended applications.

Details of the supplier of the safety data sheet

Manufacturer Desktop Metal
 63 3rd Ave.
 Burlington, MA 01803
 United States of America
 978.569.7851
 SDSInfo@desktopmetal.com

Emergency telephone number

Emergency telephone Emergency CONTACT (24-Hour-Number): Infotrac ID 106352: (USA domestic) 1 800 535 5053 or (International) 001 352 323 3500 or (GBK GmbH) ID 93315: +49 (0)6132-84463 (Germany)

2. Hazard identification

Classification of the substance or mixture

Physical hazards Not Classified
 Health hazards Not Classified
 Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

Chromium	3-7%
CAS number: 7440-47-3	
Classification	
STOT SE 3 - H335	



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Molybdenum Powder	1-5%
CAS number: 7439-98-7	
Classification	
Not Classified	

The full text for all hazard statements is displayed in Section 16.

Composition comments Components listed, if any, are present above their levels of disclosure.

Ingredient notes The exact percentage/concentration is withheld as a trade secret in accordance with the Regulations amending the Hazardous Products Regulations.

4. First-aid measures

Description of first aid measures

General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.
Ingestion	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.
Skin contact	No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	Use protective equipment appropriate for surrounding materials.

Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May be slightly irritating to eyes.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
Specific treatments	No special treatment required.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.



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Specific hazards arising from the hazardous product

Specific hazards	None known.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing that provides a basic level of protection during chemical incidents is defined by the Canada Occupational Health and Safety Regulations, by provincial guidelines on occupational health and safety or by NFPA standards if applicable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	No specific recommendations. For personal protection, see Section 8.
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Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.
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Methods and material for containment and cleaning up

Methods for cleaning up	Reuse or recycle products wherever possible. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.
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Reference to other sections

Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
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7. Handling and storage

Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.
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Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
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Conditions for safe storage, including any incompatibilities

Storage precautions	Store away from incompatible materials (see Section 10). No specific recommendations.
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Storage class	Unspecified storage.
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Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.
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8. Exposure controls/Personal protection

Control parameters



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According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR).

Occupational exposure limits

Chromium

Long-term exposure limit (8-hour TWA): ACGIH 0.05 mg/m³
A4

Molybdenum Powder

Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m³ inhalable fraction as Mo
Long-term exposure limit (8-hour TWA): ACGIH 3 mg/m³ respirable fraction as Mo

ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.

Ingredient comments	The product is not believed to present a hazard due to its physical nature. Due to the physical nature of this product, exposure by this route is unlikely.
Exposure controls	
Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	No specific hand protection recommended. Large Spillages: Wear protective gloves.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Not regarded as dangerous for the environment.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Metal or metallic solid.
Colour	Gray.
Odour	Not known.
Odour threshold	No information available.
pH	Not determined.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	Not determined.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.



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Vapour density	Not determined.
Bulk density	No information available.
Density	Not determined.
Solubility(ies)	Not determined.
Partition coefficient	No information available.
Auto-ignition temperature	Not determined.
Viscosity	Not determined.
Other information	No other information known.

10. Stability and reactivity

Reactivity	See the other subsections of this section for further details.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral	
Summary	Based on available data the classification criteria are not met.
Acute toxicity - dermal	
Summary	Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Summary	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Summary	Based on available data the classification criteria are not met.
Respiratory sensitization	
Summary	Based on available data the classification criteria are not met.
Skin sensitization	



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Summary	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Summary	Based on available data the classification criteria are not met.
Carcinogenicity	
Summary	Based on available data the classification criteria are not met.
IARC carcinogenicity	Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure	
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - repeated exposure	
Summary	Based on available data the classification criteria are not met.
Aspiration hazard	
Summary	Not relevant. Solid.
General information	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May be slightly irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.

12. Ecological information

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Acute aquatic toxicity	
Summary	Based on available data the classification criteria are not met.
Chronic aquatic toxicity	
Summary	Based on available data the classification criteria are not met.
Persistence and degradability	
Persistence and degradability	The degradability of the product is not known.
Bioaccumulative potential	
Bioaccumulative potential	No data available on bioaccumulation.



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Partition coefficient No information available.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.

Disposal methods Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, TDG).

UN number

UN No. (International) Not applicable.

UN No. (DOT) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

DOT transport label

Packing group

Packing group (International) Not applicable.

DOT packing group Not applicable.

Environmental hazards

Environmentally hazardous substance/marine pollutant No.

Special precautions for user

Not applicable.

DOT reportable quantity Not applicable.



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DOT TIH Zone Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

National regulations Hazardous Products Regulations - SOR/2015-17.
Transportation of Dangerous Goods Regulations -SOR/2015-100.

Inventories

Canada – DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

16. Other information

General information Only trained personnel should use this material.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued by Team DM - ExOne

Reviewed by Desktop Metal - North America

Revision date 2022-07-06

Revision 2

Supersedes date 2022-05-27

SDS number 310

Hazard statements in full H335 May cause respiratory irritation.

Notes End of Safety Data Sheet

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.