

MATERIAL SAFETY DATA SHEET

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**MINIATURE
STEEL BRUSHES**

Due to 91/155/EWG

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.2000) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or under ordinary conditions may affect the performance of the product and my present potential health and safety hazards.

Abbreviations: N/D not determined, N/A not applicable, CA approximately

Section 1**Identification of the substances and of the company**

Identification of the Substance:	Miniature Brushes with zinc-plated steel wires Art. No: 191 / 192 / 193 / 194	
Company identification:	HATHO GmbH Rimsinger Weg 8 79111 Freiburg Germany	phone: ++49-761-45951 0 fax: ++ 49-761-45051 20 email. info@hatho.de
Emergency telephone:	++49-761-459510	

Section 2**Information on Ingredient**

Iron (Fe)	rest %
Carbon (C)	max. 1%
Silicate (Si)	max. 0,3%
Manganese (Mn)	max. 1,2%
Phosphorus (P)	max. 0,02%
Sulfur (S)	max. 0,025%
Copper (Cu)	max. 0,2%
Zinc	max. 300 g/m ²
Trace Elements	max. 1%
All information are for the wires	

Section 3**Hazards Identification**

Human hazards:	In case of correct use there is no health effect known.
Environmental hazards: recommended disposal regulatory information	Incinerate in an industrial or commercial facility. Dispose of waste in a sanitary landfill Volatile organic compounds. N/A VOC Less H ₂ O and exempt Solvents: N/A Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous)

Section 4**First aid Measures**

Skin:	Wash affected area with soap and water
Eyes:	Immediately flush eyes with large amounts of water. Get immediate medical attention.
Ingestion:	If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call physician.

Section 5**Fire Fighting Measures**

Extinguishing media:	Water, Carbon dioxide, dry chemical, foam
Special fire fighting procedures:	Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.
NFPA Hasard Codes:	Health: 1, fire: 0, reactivity 0

Section 6	Accidental Release measures
Methods for cleaning up:	Water
Section 7	Handling and storage
Handling:	Wear safety glasses with side shields (recom: ANSI Stand Z87.1)
Measures against fire and explosion:	Use exhaust for polishing dust
Storage	In dry surrounding
Section 8	Exposure controls/personal protection
General:	Use general rules for rotation instruments
Personal protection:	Wear eye protection and gloves when necessary
Respiratory protection:	Avoid breathing of dust created by cutting, sanding or grinding. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-Mask dust respirator, full-face dust respirator.
Eye protection:	Wear safety glasses
Section 9	Physical and Chemical Properties
Melting point:	> 1000 °C, Zinc = 419,6 °C
Boiling point:	N/A
Density at 20 °C:	7,6-7,8 g/cm ³
Solubility:	N/A
Ph	N/A
Viscosity	N/A
Section 10	Stability and Reactivity
Conditions to avoid:	Temperature > 650 °C
Materials to avoid:	Acid surrounding
Hazardous Polymerisation:	Will not occur.
Hazardous decomposition products:	No hazardous decomposition products are expected during normal use of this product. However, during flaming conditions or excessive heating the following may be emitted: carbon monoxide, carbon dioxide, oxides of nitrogen, cyanides, and formaldehyde.
Section 11	Toxicological information
Routes of entry:	
Inhalation:	No adverse health effects are expected from inhalation exposure
Eyes:	Eye contact is not expected to occur during normal use of this product. Mechanical eye irritation: irritation, redness, scratching of the cornea and tearing.
	<p>The purpose of this safety sheet is to describe the product in terms of health and safety and not as a product specification, guaranteeing their properties.</p> <p>The information on this Data Sheet is accurate to the best of our knowledge as to the proper use and handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with other products or any other process is the responsibility of the user.</p> <p>HATHO makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.</p>