

# SAFETY INFORMATION SHEET

## Uncoated High Speed Steel Products

Internal No.: 202EN, Revision A

Issued: 6/23/2019

<b>SECTION 1: Identification of the product and of the company</b>
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**1.1: Product identifier**

<b>Article/Product Name</b>	Uncoated High Speed Steel Shaviv Blades
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**1.2: Relevant identified uses of the article and uses advised against**

<b>Identified Uses</b>	Recommended use of uncoated steel blades and restrictions on use: hand-deburring knives for a wide range of metal, plastic and wood materials.
<b>Uses advised against</b>	Avoid re-shaping or re-grinding finished uncoated steel blades without appropriate exposure controls (e.g. ventilation, personal protection equipment). Cutting, sharpening, or grinding high speed steel blades may produce dusts of hazardous substances, which may be inhaled, ingested or come in contact with eyes and skin. Return tools to appropriate locations for reconditioning or recycling services.

**1.3: Details of the supplier of the article information data sheet**

<b>Name</b>	<i>Vargus Ltd</i>
<b>Address</b>	<i>1 Hayotsrim street</i>
<b>Phone</b>	<i>+972 4 9855111</i>
<b>E-mail of competent person responsible for the Article Information Data Sheet</b>	Oren Etziony orene@vargus.com

**1.4 : Emergency telephone number**

<b>Emergency No.</b>	Not applicable
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## SECTION 2: Hazards identification

In case of melting, grinding or any other method of manufacturing creating dust, smoke, or oxide, follow the recommendations of paragraph 8. Upon heating, toxic fumes may be formed.

## SECTION 3: Composition/information on ingredients

Chemical Name	CAS No.	Weight %
Carbon	1333-86-4	<1.5
Iron	7439-89-6	Balance
Manganese	7439-96-5	<2.0
Chromium	7440-47-3	<5.5
Nickel	7440-02-0	<2.0
Molybdenum	7439-98-7	<5.5
Silicon	7440-21-3	<1.5
Vanadium	7440-62-2	<2.0
Cobalt	7440-48-4	<5.0
Tungsten	7440-33-7	<7.0

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### First-aid measures general:

In any cases of doubt, or when symptoms persist, seek medical advice.

#### First-aid measures after skin contact:

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Allergic reactions.

### 4.3. Indication of any immediate medical attention and special treatment needed

In case of doubt or persistent symptoms, consult always a physician

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media: Coordinate fire-fighting measures to the fire surroundings

### **5.2. Special hazards arising from the product**

Fire hazard: The product itself does not burn.

### **5.3. Advice for firefighters**

Protection during firefighting: In case of fire: wear self-contained breathing apparatus.

Other information: Do not allow run-off from fire-fighting to enter drains or water courses.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

General measures: See protective measures under point 7 and 8.

#### **6.1.1 For non-emergency personnel**

Protective equipment: Use personal protective equipment as required

#### **6.1.2 For emergency personnel**

Protective equipment: Use personal protective equipment as required

### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains.

### **6.3 Methods and material for containment and cleaning up**

Methods for cleaning up: Avoid generation of dust.

### **6.4 Reference to other sections**

Treat the recovered material as prescribed in the section on waste disposal.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Precautions for safe handling: May cause sensitization especially in sensitive humans.

Precautions for safe handling: Avoid generation of dust.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace.

## 7.2 Conditions for safe storage, including any incompatibilities

Prohibitions on mixed storage: Do not store together with: acids, oxidizing agents and reducing agents

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Chromium (7440-47-3)

EU	IOELV TWA (mg/m <sup>3</sup> ) Notes	2 mg/m <sup>3</sup> (Chromium, anorg. CrII and CrIII compounds, insoluble)
Belgium	Limit value (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> ) mg/m <sup>3</sup> Anmærkninger (DK)	0.5 mg/m <sup>3</sup> (Chrom, pulver og opløselige chromi- og chromosalte, beregnet som Cr)
France	VME (mg/m <sup>3</sup> ) Note (FR)	2 mg/m <sup>3</sup> * Chrome (métal) * Valeur Limite d'Exposition Professionnelle Indicative
Italy - Portugal – USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> ) VLA-ED (ppm) Notes	2 mg/m <sup>3</sup> 2 ppm (Cromo metal, compuestos inorgánicos Cr(II) y Cr(III) insolubles, como Cr)
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> Anmärkning (SE) (Krom och dess oorg. II, III-föreningar, som Cr; totaldamm)
Switzerland	VME (mg/m <sup>3</sup> ) Remark (CH)	0.5 mg/m <sup>3</sup> (eintembar; Metall und Chrom-(III)-Verbindungen)
United Kingdom	WEL TWA (mg/m <sup>3</sup> ) Remark (WEL)	0.5 mg/m <sup>3</sup> (ChromiumII and ChromiumIII compounds, as Cr)
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> ) Remark (US OSHA)	1.0 mg/m <sup>3</sup> (Chromium metal and insol. salts (as Cr))

Cobalt (7440-48-4)

Belgium	Limit value (mg/m <sup>3</sup> ) Remark *	0.02 mg/m <sup>3</sup> (fumées et poussières) (en Co)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> ) mg/m <sup>3</sup> Anmærkninger (DK)	0.01 mg/m <sup>3</sup>  K
Italy - Portugal – USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.02 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )  VLA-ED (ppm)	0.02 mg/m <sup>3</sup> (Cobalto elemental y compuestos inorgánicos, como Co) 15 µg/l F "(Cobalto en orina; Final de la semana laboral 1)" 1 µg/l F, S "(Cobalto en sangre; Final de la semana laboral 1)"
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> ) Anmärkning (SE)	0.02 mg/m <sup>3</sup> (C,H,S,2)
Switzerland	VME (mg/m <sup>3</sup> )  VME (ppm)	0.05 mg/m <sup>3</sup> (einatembarer Staub) 30 µg/l Cobalt, Urin, b
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.1mg/m <sup>3</sup>

## Nickel (7440-02-0)

Belgium	Limit value (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (composés solubles, en Ni) 0.2 mg/m <sup>3</sup> (composés insolubles inorganiques, en Ni) 1.0 mg/m <sup>3</sup> (métal)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> ) mg/m <sup>3</sup> Anmærkninger (DK)	0.05 mg/m <sup>3</sup> (Nikkel, pulver og støv, beregnet som Ni; K)
France	VME (mg/m <sup>3</sup> ) Note (FR)	1.0 mg/m <sup>3</sup> (Nickel métal)
Italy - Portugal – USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> (soluble) 1.5 mg/m <sup>3</sup> (inhalable fraction)
Spain	VLA-ED (mg/m <sup>3</sup> ) Notes	1.0 mg/m <sup>3</sup> Sen,r
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> ) Anmärkning (SE)	0.5 mg/m <sup>3</sup> (totaldamm, S, 1)
Switzerland	VME (mg/m <sup>3</sup> ) VME (ppm)	0.5 mg/m <sup>3</sup> (einatembarer Staub)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.015 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1.0 mg/m <sup>3</sup>

### 8.2 Exposure controls

Appropriate engineering controls: Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protective equipment: Dust production: dust mask with filter type P3.

Dustproof clothing; Gloves.



Hand protection: EN-norms: EN 374.

Skin and body protection: EN-norms: EN 13982.

Respiratory protection: Filtering Half-face mask (EN 149).

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Solid.
Color	Steel.
Odor	Odorless.
Melting point	1200 – 1500 °C
Relative density	7.4 – 8.8 g/cm <sup>3</sup> .
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

### 9.2 Other information

No additional information available

## Section 10: Stability and reactivity

### 10.1 Reactivity

No additional information available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions.

No additional information available

### 10.4 Conditions to avoid

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 10.5 Incompatible materials

Acids, oxidizing agents and reducing agents.

### 10.6 Hazardous decomposition products

Metal oxides.

## **SECTION 11: Disposal considerations**

### **11.1 Waste treatment methods**

Waste treatment methods: Material recycling possible.

Ecology - waste materials: Do not dispose of waste into sewer. Dispose according to legislation.

## **SECTION 12: Transport information**

Not regulated for transport

## **SECTION 13: Regulatory information**

Article under REACH Regulation 1907/2006/EC: according to REACH, there is no legal obligation to provide a Safety Data Sheet for an Article. However, to be able to provide information on the safe use of this Article, the present Safety Information Sheet has been worked out.

No REACH Annex XVII restrictions

Contains no substance on the REACH candidate list

## **SECTION 14: Other information**

Indication of changes: Modifications are indicated by an asterisk (\*).

Abbreviations and acronyms:

- ACGIH, American Conference of Governmental Industrial Hygienists
- CAS, Chemical Abstract Service
- IOELV, Indicative Occupational Exposure Limit Value
- NIOSH, National Institute of Occupational Safety and Health
- OSHA, Occupational Safety and Health Administration
- PEL, Permissible Exposure Limits
- REL, Recommended Exposure Limits
- TWA, Time Weighted Average