according to Regulation (EC) No 1907/2006

JK7184 powder				
Revision date: 26.03.2024	Product code: DWS-012	Page 1 of 10		
SECTION 1: Identification of t	he substance/mixture and of the company/undertaking			
<u>1.1. Product identifier</u> JK7184 powder				
Further trade names KSPN1046-1				
UFI:	24YW-V06V-F00D-NXK5			
1.2. Relevant identified uses of t	he substance or mixture and uses advised against			
Use of the substance/mixture Welding powder. For indus Uses advised against				
1.3. Details of the supplier of the				
Company name:	Deloro Wear Solutions GmbH			
Street:	Zur Bergpflege 51 - 53			
Place:	D-56070 Koblenz			
Telephone:	+49 (261) 80880			
E-mail:	wearsolutions@deloro.com			
Contact person:	Frau Melanie Arens			
E-mail:	wearsolutions@deloro.com			
Internet:	http://www.deloro.com	_		
1.4. Emergency telephone number:	Poison Control Center (Mayence, GER): +49 (0)6131 - 19240 (24h) This data sheet is an English translation of the EU safety data sheet and is no suitable for the distribution in a specific country.	•		

### Further Information

according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Skin Sens. 1; H317 Carc. 2; H351 STOT RE 1; H372 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

### Regulation (EC) No 1272/2008

Hazard components for labelling nickel powder

Signal word:

Danger

Pictograms:



### **Hazard statements**

H317 H351 May cause an allergic skin reaction. Suspected of causing cancer.

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H372	Causes damage to organs through prolonged or repeated exposure.			
H412	Harmful to aquatic life with long lasting effects.			
Precautionary stateme	nts			
P260	Do not breathe dust/fume/gas/mist/vapours/spray.			
P280	Wear protective gloves/protective clothing and eye protection/face protection.			
P302+P352	IF ON SKIN: Wash with plenty of water.			
P362+P364	Take off contaminated clothing and wash it before reuse.			
P308+P313	IF exposed or concerned: Get medical advice/attention.			
P501	Dispose of contents/container to an appropriate recycling or disposal facility.			
2.3. Other hazards				
The substances in the	ne mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.			
This product does not contain a substance that has endocrine disrupting properties with respect to humans as				
na componente mas	to the eviteria			

no components meets the criteria.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### **Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
7440-02-0	) nickel powder			> 50 %
	231-111-4	028-002-01-4		
	Carc. 2, Skin Sens. 1, STOT RE 1, Aquatic Chronic 3; H351 H317 H372 H412			
7440-47-3	Chromium			10 - 25 %
	231-157-5			

Full text of H and EUH statements: see section 16.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

In case of persistent symtoms, consult a doctor/physician. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid dust generation. First aider: Pay attention to self-protection!

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Where appropriate artificial ventilation. Seek medical help.

### After contact with skin

Rinse skin with water. Change contaminated clothing. Consult a doctor if symptoms persist. The melted product can cause severe burns. After skin contact with melted product: 1. quickly cool with water (not ice), 2. do not pull off melted product from skin, 3. burns caused by the melted product must be treated medically.

### After contact with eyes

In case of contact with eyes, rinse immediately (and under protection of the uninjured eye) with plenty of flowing water for 10 minutes, holding eyelids wide apart. Remove contact lenses. Consult an ophthalmologist. The melted product can cause severe burns. Rinse immediately carefully and thoroughly with eye-bath or

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water. Call a physician immediately.

### After ingestion

Rinse mouth immediately and drink plenty of water. Seek medical advise. Do NOT induce vomiting. Call a physician immediately.

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

May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.

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

Treat symptomatically.

Respiratory or skin sensitisation.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

### Unsuitable extinguishing media

Chromium: Carbon dioxide (CO2).

### 5.2. Special hazards arising from the substance or mixture

The product is non-flammable. Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Carbon oxides

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear personal protection equipment. Do not inhale explosion and combustion gases.

### Additional information

Contaminated fire-fighting water must be collected separately. Dispose of waste according to applicable legislation.

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

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

#### General advice

Avoid dust generation. Provide adequate ventilation. Avoid contact with skin and eyes. Wear personal protection equipment. Use appropriate respiratory protection.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

#### For containment

Avoid generation of dust.

### For cleaning up

Take up mechanically, placing in appropriate containers for disposal.

### 6.4. Reference to other sections

Personal protection equipment: see section 8 Handling and storage: see section 7 For waste disposal see section 13.

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

### 7.1. Precautions for safe handling

#### Advice on safe handling

When using do not eat, drink or smoke. Use personal protection equipment. Avoid contact with eyes and skin. Take off contaminated clothing and wash it before reuse. Do not breathe dust.

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### Advice on protection against fire and explosion

Contaminated fire-fighting water must be collected separately.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Do not eat, drink, smoke or sneeze at the workplace. Keep away from food, drink and animal feedingstuffs.

### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.

### Hints on joint storage

Store seperately from foodstuff.

### 7.3. Specific end use(s)

Welding powder. For industrial purposes only.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7429-90-5	Aluminium metal (Respirable Fraction)	-	1		TWA (8 h)	
7440-47-3	Chromium metal	-	2		TWA (8 h)	
7440-02-0	Nickel	-	0.5		TWA (8 h)	
7440-25-7	Tantalum	-	5		TWA (8 h)	
		-	10		STEL (15 min)	

#### **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
7440-02-0	Nickel	Ni	3 μg/L		After several consecutive working shifts
7440-47-3	Chromium	Total chromium	25 µg/L	-	End of shift at end of workweek

### 8.2. Exposure controls







### Appropriate engineering controls

Ensure adequate ventilation. In case of application in interior spaces proper ventilation/exhaustion must be provided.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Tighty fitting safety glasses with side shields.

#### Hand protection

Tested protective gloves are to be worn: For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The glove material has to be impermeable and resistant to the product / the substance / the mixture. When selecting the glove material, observe breakthrough times, permeation rates and degradation.

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Suitable material: NBR (Nitrile rubber). Coating thickness: 0,11 mm penetration time (maximum wearing period): 480 min

### Skin protection

Full cover clothing covering arms and legs.

### **Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Use suitable breathing apparatus.

Full-/half-/quarter-face masks (EN 136/140), P2, P3, FFP2, FFP3

### **Environmental exposure controls**

Do not allow to enter into soil/subsoil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state:	solid (Powder)	
Colour:	metallic	
Odour:	odourless	
Melting point/freezing point:		965 - 1040 °C
Boiling point or initial boiling point and		no data available
boiling range:		
Flammability:		no data available
Lower explosion limits:		no data available
Upper explosion limits:		no data available
Flash point:		no data available
Auto-ignition temperature:		no data available
Decomposition temperature:		no data available
pH-Value:		no data available
Viscosity / kinematic:		no data available
Water solubility:		insoluble
Dissolution rate:		no data available
Partition coefficient n-octanol/water:		no data available
Dispersion stability:		no data available
Vapour pressure:		no data available
Density:		8,44 g/cm³
Relative density:		no data available
Bulk density:		no data available
Relative vapour density:		no data available
Particle characteristics:		no data available
9.2. Other information		
Information with regard to physical ha	zard classes	
Explosive properties		
not explosive.		
Self-ignition temperature		
Solid:		no data available
Gas:		no data available
Oxidizing properties Not oxidising.		
C C		
Other safety characteristics		
Sublimation point:		no data available
Softening point:		no data available

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Pour point: Viscosity / dynamic:

#### **Further Information**

no data available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactivity under regular conditions.

### 10.2. Chemical stability

The product is stable when stored and handled appropriately.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions to be expected if used properly.

#### 10.4. Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### 10.5. Incompatible materials

Oxidizing agents, strong. Acids.

#### 10.6. Hazardous decomposition products

When used properly no hazardous products of decomposition are expected. Thermal decomposition can lead to the escape of irritating gases and vapours.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause an allergic skin reaction. (nickel powder)

### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (nickel powder) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (nickel powder)

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### **SECTION 12: Ecological information**

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no data available no data available

according to Regulation (EC) No 1907/2006

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### <u>12.1. Toxicity</u>

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

No further data available.

#### 12.3. Bioaccumulative potential

No further data available.

12.4. Mobility in soil

No further data available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

### **Disposal recommendations**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Dispose of waste according to applicable legislation.

### **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Inland waterways transport (ADN)14.1. UN number or ID number:

14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

### Marine transport (IMDG)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

#### Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

### 14.6. Special precautions for user

No

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### **SECTION 15: Regulatory information**

No special precautions known.

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

### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to Directive Not subject to 2012/18/EU (SEVESO III)

### 2012/18/EU (SEVESO III): Additional information

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable Regulation (EC) No. 648/2004 [Detergents regulation]: not applicable

Regulation (EC) No 2019/1021 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

# This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

### National regulatory information

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D):

Employment restrictions:

1 - slightly hazardous to water

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 1,16. Version 1,00 - 07.03.2024 - first creation Version 1,01 - 26.03.2024 - Adjustments in sections 1

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Abbreviations and acronyms Water-react: Substance and Flam. Sol: Flammable solid Skin Sens: Skin sensitisatio Carc: Carcinogenicity STOT RE: Specific target or Aquatic Chronic: Chronic ac ADR: Accord européen sur concerning the International BImSchV (Fed.Imm.Prot.Ac CAS: Chemical Abstracts Sc DIN: Norm of the Deutsche EC: Effective Concentration EG: European Community ( EN: European Norm IATA: International Air Trans IBC Code: International Cod Bulk ICAO: International Civil Avi IMDG: International Maritim ISO: Norm of the Internation CLP: Classification, Labeling IUCLID: International Unifor LC: Lethal concentration LD: Lethal dose log Kow: Octanol/water part MARPOL: Maritime Pollution OECD: Organisation for Ecc PBT: Persistent, bio-cumula RID: Regulation Concerning TRGS: Technische Regeln f UN: United Nations VOC: Volatile Organic Com vPvB: very persistent and ve VwVwS: Administrative Reg WGK: German Water Hazar GHS: Globally Harmonized EINECS: European Inventor	I mixture which, in contact with water, emits flammable gas n gan toxicity - repeated exposure uatic hazard le transport des marchandises dangereuses par Route (European Agreement Carriage of Dangerous Goods by Road) (); Directive on the Implementation of the Federal Immission Protection Act ervice Institut für Normung (German Institute for Standardization) Europäische Gemeinschaft) soport Association le for the Construction and Equipment of ships carrying Dangerous Chemicals in ation Organization e Code for Dangerous Goods ual Standards Organization g, Packaging m ChemicaL Information Database lition coefficient n Convention = Convention for the Prevention of Maritime Pollution from Ships sonomic Co-operation and Development tive, toxic the International Transport of Dangerous Goods by Rail für Gefahrstoffe pounds ary bio-cumulative ulation for Water Pollutants d Class System of Classification and Labelling of Chemicals ry of Existing Commercial Chemical Substances lotified Chemical Sub			
	ations for Handling Substances Hazardous to Water			
	sed evaluation method according to Regulation (EC) No 1272/2008 [CLP]			
Classification	Classification procedure			
Skin Sens. 1; H317	Calculation method			
Carc. 2; H351	Calculation method			
STOT RE 1; H372	Calculation method			

### Relevant H and EUH statements (number and full text)

May cause an allergic skin reaction.

Calculation method

H317 H351 Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure. H372

Aquatic Chronic 3; H412

according to Regulation (EC) No 1907/2006

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H412	Harmful to aquatic life with long lasting effects.	
Further Information		

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

asseso AG, Ottostraße 1, 63741, Aschaffenburg, Germany Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@asseso.eu, www.asseso.eu

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)