

According to the regulation (EC) No. 1907/2006

Designation of substance and/or preparation, company name				
Trade name	TMX Round Tools			
Use of substance / preparation	Tools for the processing of different materials			
Manufacturer / Supplier	TMX by Toolmex			
Street / POB	34 Talbot Road			
Country code / ZIP code / Town	Northborough, MA 01532			
Technical information contact	support@toolmex.com			
Phone / Fax / Email	+1-508-653-8897 / +1-508-653-5110 / 844-869-8665 (844-TMX- TOOL) support@toolmex.com			
Emergency information	+1-508-653-8897 / 844-869-8665 (844-TMX-TOOL)			

MATERIAL SAFETY DATA SHEET

1 Potential Hazards

Special hazard warnings for people and the environment

Not applicable

Additional danger warning for persons and the environment:

HSS High Speed Steel

The Alloyed Steels of our tools may contain Manganese, Tungsten, Aluminum, Copper, Niobium, Titanium and other substances that are rated as non-hazardous materials, or that are below the threshold value pursuant to the EU directive 1999/45/ or where no recognized limit value applies according to the EU directives. In the form the tools figured under no. 1 are marketed, there are no health hazard if they are inhaled, swallowed or come into contact with the skin. The alloying elements listed under No. 3 are firmly combined in the metallic structure of the workpiece material

2 Composition / Information on ingredients

Chemical characterization:

Hazardous ingredients:

Substance:	CAS-No.	EINECS – No.	Range of concentration (weight amount in %)	Classification
Nickel	7440-02-0	231-111-4	< 0.5%	R 40, R43
Cobalt 1	7440-48-4	231-158-0	< 12%	R 42/43, R53
Chromium	7440-47-3	231-157-5	< 5%	
Molybdenum	7439-98-7	231-107-2	< 10%	
Manganese	7439-96-5	231-105-1	< 1%	
Vanadium	7440-62-2	231-171-1	< 6.5%	
Tungsten	7440-33-7	231-143-9	< 12%	





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3 Occupational e	xposure	limits			
Substance	bstance CAS – No		EINECS – No.	MAK/TRK mg/ m3	
Cobalt	7440-48-4		231-158-0	0.1	
4 First aid measu	res				
General information		Workplace hygiene: No eating, no drinking, no smoking in the work area. Thoroughly wash your hands before eating, drinking or smoking			
In case of inhalation		In case of inhala	ation of aerosols, move aff	ected person into fresh air	
In case of skin contact		Flush with wate	er using mild cleaning agen	t	
In case of eye contact	In case of eye contact		In case of eye irritation, rinse with plenty of water. Consult a physician if the skin irritation persists		
In case of ingestion		Not Applicable			
5 Fire-fighting m	easures				
Suitable extinguishing media		Non-combustible product			
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases		None			
Special protective equip	Special protective equipment		Not Applicable		
6 Accidental rele	ase mea	sures			
Environmental precaution	ons	No special measures required			
Methods for cleaning up)	Not Applicable			
7 Additional info	rmation	1			
Advice on safe handling		When it comes to thermal treatment and/or mechanical processing, removal by suction at the machine and/or at the workstation; ventilation measures in general. Please observe the occupational safety regulations.(Welding, cutting and similar methods) and the technical rules for hazardous substances TRGS 900 (threshold limit values in the air, at the workplace)		at the workstation; serve the occupational milar methods) and the	
Precautions against fire and explosion		No special requirements			





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8 Exposure controls/ Personal protection

Occupational exposure limits resp. biological occupational exposure limits

Exposure values

There are no workplace-related limits for the different Steel grades of round tools under item 1; however, limit values are to be observed when it comes to some elements contained in those Steels and/or their compounds. For your guidance, please see the threshold limit values regarding the aerosols created during their application. The information given in the respective current lists of hazardous substances accident insurances institutions for the industrial sector and the relevant Technical Rules for hazardous substances (TRGS) 900, 901 and 905 shall prevail.

Preventive measures

During the mechanical processing (e.g. milling, turning, boring, drilling, thread cutting operations) aerosols can be produced whose components are subject to the limit value monitoring. Observing the limits shall be ensured by suitable workplace ventilation and extraction systems

Hand protection	
Glove material:	Dependant on the respective machining process
Coat thickness (mm):	_
Breakthrough time (min):	_
Eve protection	

Eye protection

If required, use safety goggles depending on the process application

9 Physical and chemical properties

Appearance			
Physical state:	Solid		
Color:	Silver grey metallic, from matt black to high gloss finished, dependant on the tool design		
Odor:	Odorless		
Safety relevant data			
Danger of explosion:	No		
Lower explosion limit:	-		
Upper explosion limit:	_		
Melting point/range:	1,500 – 1,600 °C		
Density:	8.5 – 9 g/cm3		
Flow time:			
Water solubility:	No		
pH value:	Not Applicable		
Boiling temperature/boiling range:	-		
Flash point:	Not Applicable		
Ignition temperature:	-		





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10 Stability and reactivity			
Conditions to be avoided	The substance is stable under normal conditions		
Substances to be avoided	Avoid contact with strong acids		
Hazardous decomposition products	Stable and non-reactive under normal conditions		

Toxicological information

Toxicity tests

Exposure Limits

No data available

Acute toxicity

Inhalation

No data available

Skin contact

According to the occupational health experience, no sensitization is known when handling Steel products as described under number 1, with the usual skin contact

Ingestion

No data available

Eye contact

Can lead to irritant effects on the eyes

Chronic toxicity

Inhalation

No data available

12 Ecological information

Ecotoxicity – Not applicable

13 Disposal considerations

13.1	Designation	Alloyed Steel scraps	
13.2	Recommendation for unused substance/ preparation	Return to the Steel producer through the scrap trade	
13.3	Recommendation for unused substance/scrap/preparation	Return to the Steel producer through the trade	
13.4	Disposal of packaging materials	According to the legal requirements	
Waste codes according to the waste catalogue ordinance (AVV)			

12 01 01 Iron filings and turning chips





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14 Transport information					
Land transport ADR / RID					
Classification: No danger	ous transportation good p	ursuant to the regulations on c	arriage of dangerous goods		
Class:	_	Hazard number:	_		
UN-No:	_	Classification code:	_		
15 Regulatory inf	ormation	,			
Chemical safety assessm	ent				
_					
Labeling according to EG	regulations				
		nvironment hazard due to thei rements according to the guid			
No hazard(ous) compon	ents for labeling:				
R-phrases:	42/43: Poss 43: Poss	42/43: Possible sensitization due to inhalation and skin contact43: Possible sensitization due to skin contact			
S-phrases:	24: Avoi 36: Suita 37: Wea 61: Any	d inhaling dust d skin contact ble protective clothing is requi r suitable protection gloves release to the environment mu instructions/consult the safety	st be prevented		
Explanation	·				
	afety data sheet describes	data sheet is based on our cu the products in terms of safet			
National regulations					
Water hazard class					
Class:		WGK 0 as solid			
Technical instructions Air					
Sec.5.2.2, class II					
Hazardous incident regula	tions				
Not listed in the annexes					
Solvent regulations (31)					
Employment restrictions	S: None				





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16 Additional information

Applicable EC guidelines

Guidelines 91/155/EEC

Restrictions on use, recommended by the manufacturer: -

R-phrases referred to in the sections 2 and 3: -

17 Other information /US

Users Responsibilities

This Material Safety Data Sheet provides information consistent with recommended applications of these products and anticipated activities involving the product. It is the user's responsibility to identify and protect against health and safety hazards presented by modification of cemented Carbide powders and products after manufacture. Individuals handling cemented Carbide powders should be informed of all relevant hazards and recommended safety precautions, and should have access to the information contained in this MSDS

Disclaimer

The information contained herein is based upon data provided by manufacturers and suppliers of raw materials used in the manufacture of cemented Carbide powders. The information is offered in good faith as accurate and correct, but no representations, guarantees, or warranties of any kind are made as to its accuracy or completeness, suitability for particular applications, hazards connected with the use of the powder, or the results to be obtained from the use thereof. User assumes all risk and liability of any use or handling of any material beyond **Toolmex Industrial Solutions** control. Variations in methods, conditions, equipment used to store, handle, or process the material, and hazards connected with the use of the powder are solely the responsibility of the userand remain at its sole discretion

This MSDS is intended to be used solely for the purpose of satisfying informational requests made pursuant to Title 29 of the Code of Federal Regulations, Section 1910.1200 et seq. It is not intended to pre-empt, replace, or expand the terms contained in **Toolmex Industrial Solutions** Conditions of Sale. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe workplace, to examine all aspects of its operation, and to determine if or where precautions, in addition to those described herein, are required. This information may not be valid for these powders when manufactured with alternate materials meeting the special requirements of a particular user

compiling		

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