

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

Issued on: 08.2011 **Revised on:** 04.2014 **Revision:** 02

Designation of substance and/or preparation, company name			
Trade name	Palbit Carbide		
Use of substance / preparation	Tools for the processing of different materials		
Manufacturer / Supplier	Palbit SA/ TMX by Toolmex		
Street / POB	P.O. Box No 4, Palhal		
Country code / ZIP code / Town	3854-908 Branca Alba-Velha Portugal		
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MATERIAL SAFETY DATA SHEET

1 Potential Hazards

Special hazard warnings for people and the environment

Not applicable

Additional hazard warnings for people and the environment

HSS High Speed Steels

The Alloyed Steels of our tools may contain, Carbide, 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, they are not health hazards 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:

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 ex	xposure	limits		
Substance	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 affe	ected person into fresh air
In case of skin contact		Flush with water using mild cleaning agent		
In case of eye contact		In case of eye irritation, rinse with plenty of water. Consult a physician if the 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 equipment		Not applicable		
6 Accidental rele	ase mea	sures		
Environmental precautions		No special measures required		
Methods for cleaning up)	Not applicable		
7 Additional information				
removal by s ventilation m similar meth		removal by suctiventilation meas similar methods	to thermal treatment and/o on at the machine and/or a sures in general. Please obse and the technical rules for hold limit values in the air,	at the workstation; erve (welding, cutting and hazardous substances
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 routes

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

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):	_	

Eye protection

If required, use safety goggles dependant on the process application

Physical and chemical properties **Appearance Physical state:** Solid Color: Silver gray metallic, from matt black to high gloss finished, dependant on the tool design Odorless Odor: 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/cm3Flow time: Water solubility: No Not applicable pH value: **Boiling temperature/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

11 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
307 4		(4) (3)

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 dangerous transportation good pursuant to the regulations on carriage of dangerous goods					
Class:	_			Hazard number:	_
UN-No:	_			Classification code:	_
15 Regulatory inf	ormati	on			
Chemical safety assessm	ent				
_					
Labeling according to El	C regula	tions RL 6	7/548		
	are not si			onment hazard due to thei ng requirements according t	
No hazard(ous) compon	ents for I	abeling:			
R-phrases:		40: 42/43: 43: 53:	Possible Possible	ed of causing cancer sensitization due to inhalat sensitization due to skin co detrimental effects on wate	ntact
S-phrases:		22: 24: 36: 37: 61: Ask for s	Avoid sk Suitable Wear su Any rele	haling dust cin contact protective clothing is requirable itable protection gloves case to the environment mu structions/consult the safety	st be prevented
Explanation					
The information given in the present material safety data sheet is based on our current knowledge and experience. The material safety data sheet describes the products in terms of safety requirements. The information is no quality assurance					
National regulations					
Water hazard class					
Class: WGK 0 as solid					
Technical instructions Air					
Sec.5.2.2, class II					
Hazardous incident regulations					
Not listed in the annexes					
Solvent regulations (31)					
Employment restrictions: 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

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