

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	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

Toolmex® TMX™ specialty coatings represent less than 1% of the total tool by weight. The Ingredients list below includes typical weight ranges for cutting tools to which the coatings are applied. The coating identified below is applied to the tool by Toolmex or its supplier

1 Identification				
Product Name:		Titanium Aluminum Nitride-TiAlN-(monolayer coating)		
Sizes:		As applied to all new and reconditioned cutting tools		
Emergency Telephone Number:		+1-508-653-8897 / 844-869-8665 (844-TMX-TOOL)		
Environmental Health and Safety Information:		+1-508-653-8897 / 844-869-8665 (844-TMX-TOOL)		
Edition Date:		04.2014		
Approved By:		Toolmex Industrial Solutions		
2 Ingredients				
Ingredient Name:	CAS #	%	TLV*	
Titanium (in coating)	7439-98-7	0.2-1.0	10 mg/m3 (I) 3 mg/m3 (R)	
Aluminum (in coating)	7429-90-5	0.02-0.50	5mg/m3-Irritant	
Other (tooling)		99-99.8	Not Applicable	







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3 Physical Data					
Boiling Point @ 760 mm Hg (°C):		Not Applicable			
Vapor Pressure (mm Hg @ 25°C):		Not	Not Applicable		
Vapor Density (Air = 1):		Not	Not Applicable		
Density (grams/cc):		Not Applicable			
Percent Volatile by Volume (%):		Not Applicable			
Evaporation Rate (Butyl Acetate = 1):		Not Applicable			
Physical State:		Not Applicable			
Solubility in Water (% by Weight):		Not Applicable			
pH:		Not	Not Applicable		
Appearance and Odor:	Appearance and Odor:		Black-violet colored coating on tool		
4 Fire and Explosion Haz	ard Data				
Flash Point:	NA		Lower (LEL):	NA	
Flammable Limits in Air (%):	NA	NA I		NA	
Extinguishing Media:	Titanium Aluminum Nitride coating is not flammable. Fight fire normally based upon other materials involved				
Auto-Ignition:	NA				
Special Fire Fighting Procedures:	As with any fire, wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products from other materials that may be involved				
Special Fire Explosion Hazards:	None				
5 Health Hazard Data					
Threshold Limit Value (TLV) and Source:	Titanium Aluminum Nitride coating forms a wear resistant surface on the tooling to which it is applied. A small amount of coating may be released as particulates during normal machining operations. Airborne concentrations at the TWA are highly unlikely due to low coating amount and small surface area typically involved. (See section 2-Titanium Aluminum)				
Effects of Overexposure:	Irritation				
Emergency First Aid Procedures:	Inhalation: Remove individual from immediate work area to a supply of fresh air. At a minimum, use standard ventilation practices around operating machine tools. Consult physician if condition persists				
	Eye: Wear approved eye protection whenever using machining tools. Use good practices when securing tooling in a machine				

NA = Not Applicable





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6 Reactivity Data				
Stable or Unstable:		Stable		
Incompatibility (Materials to Avoid):		Not Applicable		
Hazardous Decomposition Products:		Not Applicable		
Decomposition Temperature (0°F):		Not Applicable		
Hazardous Polymerization:		Will Not Occur		
Conditions to Avoid:		Not Applicable		
7 Spill of Leak Proce	dures			
Procedures to contain and clean up leaks or spills:	TiAlN Coating is applied to metal tooling. Pick up and properly store tooling to avoid trip hazard			
Reporting Procedure:	Report all spills in accordance with Federal, State and Local reporting requirements. Toolmex is not aware of any environmental reporting requirements for spilled tooling			
Waste Disposal Method:	Used tooling may be re-coated several times before it reaches end of life. Toolmex recommends returning the tooling for recoating as many times as practical and then recycling the metal tool appropriately at end-of-useful-life			
8 Protection Informa	ation			
Respiratory Protection:	General respiratory prot	General respiratory protection for dust/fumes		
Ventilation: Local Exhaust: Mechanical (General): Special: Other:	General ventilation May control or enclose work area if appropriate Not Applicable Not Applicable			
Protective Gloves:	As needed for heat or metal slivers on tooling			
Eye Protection:	Use safety eye wear around operating machines			
Other Protective Clothing:	Not Applicable			
9 Special Precautions				
Handling and Storage:	Store tooling in a dry place. Observe proper lifting techniques for bulk tooling			
Transportation / Shipping:	TiAlN coating on tools does not classify the tooling for any hazard class per USDOT regulations. Normally the tooling to which the TiAlN coating is applied is not hazardous materials. Always ship tools per 49 CFR, IATA, ICAO, UN regulation, or other local regulation that may be required for the base tool material			

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Notification is not required because this coating contains aluminum (listed) in an amount below the threshold reporting value. Your individual facility or product reporting requirements may vary

NOTICE: The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Toolmex Industrial Solutions makes no warranty expressed or implied

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 n 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 user and 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 the **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

Company compiling the data sheet:	Department – Toolmex Sales and Marketing
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