

primotec ®	Material Safety Data Sheet Separate Product / Preparation	SDB – No.	13-03	Page	1 of 3
		Revision	1.0	Date:	04/292005

1	Material and corporate name						
1.1	Details on the product	Trade name	Special-Tungsten Electrodes		Item No. (REF)	Mx0-0100	
1.2	Manufacturer	Name	primotec, Joachim Mosch				
		Address	Tannenwaldallee 4, D-61348 Bad Homburg				
		Telephone	0049-6172-99770-0	Fax	0049-6172-99770-99	e-mail	primotec@primogroup.de
		Information about	Safety	Telephone	0049-6172-99770-0	Fax	0049-6172-99770-99
		Emergency information	See above				

2	Composition / information on ingredients					
Hazards identification						
	Ingredient	CAS-No.	Einecs-No.	Percentage	Dangerous to health or hazardous to environment (RL 67/548/EWG)	
1	Tungsten	7440-33-7	231-143-9	98 %		
2	Lathanum oxide (La ₂ O ₃)	n.d.	n.d.	2 %		

3	Hazards identification					
3.1	Danger designation					n.d.
3.2	Particular danger warning for man and environment					n.d.
3.3	Classification system					n.d.

4	First aid measures					
4.1	After inhalation	Consult a doctor				
4.2	After skin contact	In general the product is not stimulant to the skin				
4.3	After eye contact	Rinse out with flowing water with the eye -lid held wide open for several minutes; check-up by the oculist if disturbances				
4.4	After ingestion	Rinse mouth, consult a doctor.				
If serious disturbances, consult a medical practitioner in any case						

5	Fire-fighting measures					
5.1	Suitable extinguishing media					
	Recommendable: CO ₂ , dry powder category D, water spray					
5.2	Special endangering					
	n.d.					
5.3	Special protection equipment and protective clothing for fire-fighting					
	n.d.					

6	Accidental release measures					
6.1	Person related precautions					
	n.d.					
6.2	Environmental protection measures					
	According to the legal national regulations					
6.3	Procedures for cleaning/absorption					
	Sweep off mechanically					

7	Handling and storage					
7.1	Advice on safe handling					
	No particular measures necessary					
7.2	Requirements for storage rooms and vessels					
	Keep it dry					
7.3	Intended application					
	This product is intended for a non melting Electrode in the WIG welding procedure. Thus emerging dusts and vapours have to be exhausted using appropriate devices with filters and gas scrubbers					

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8	Exposure control and personal protection			
8.1	Explosive limit			
	n.d.			
8.2	Industrial hygiene and personal protective equipment			
	Respiratory protection	Use exhausting system (see above)	Hand protection	General hygiene and precautions
	Eye protection	General precautions	Body protection	General precautions
	Explosive limit and observation measures		n.d.	
	Keep away from food and forage. Wash hands before meals and after work			

9	Physical and chemical properties						
9.1	Appearance:	Form	firm	Color	Metallike-grey	Odour	inodorous
9.2	Specifications pertinent to safety		Value	Unit	Method of determination/remarks		
9.2.1	Melting point:		3,680	°K			
9.2.2	Ignition point:		n.d.				
9.2.3	Oxidizing characteristics:		n.d.				
9.2.4	Vapor pressure at 20°C:		0	hPa			
9.2.5	Density at 20°C:		18.50	g/cm ³			
9.2.6	Solubility:		Insoluble in water and grease				
9.3	Other details:						
9.3.1	Boiling point:		5,828	°K			
9.3.2	Electrical conduction:		18.20	m/Wmm ²			
9.3.3	Specific activity:		n.d.				

10	Stability and reactivity	
10.1	Conditions to be avoided:	No corrosion in intended handling
10.2	Substances to be avoided:	Hydrofluoric acid, nitric acid (concentr.), sodium nitrate, - nitrite
10.3	Hazardous decomposition products	None

11	Toxicological information	
11.1	Acute toxicity	n.d.
11.2	Primary irritation	
	To the skin	None
	To the eye	None
11.3	Allergization	Not known
11.4	Additive toxic hints	n.d.

12	Ecological information	
12.1	Water pollution class	Not hazardous to water (WGK acc. VwVwS of May 17, 1999)
12.2	Agility	n.d.
12.3	Reduction	n.d.
12.4	Biologically totalling tolerances	n.d.

13	Disposal considerations	
13.1	Product	Disposal according to national regulations
13.2	Commendation	
13.3	Uncleanded package	Disposal according to national regulations
13.4	Commendation	Can be disposed as domestic waste

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14	Transport information	
14.1	Road haulage ADR/RID from 2001-07-01 and GGVS/GGVE (cross-border/national)	
	ADR/RID-GGVS/E-Class	n.d.
	Digit/letter	n.d.
	UN-No.	n.d.
	Hazard label	n.d.
	Hazard ID-No. (Kemmler No.)	n.d.
	Carriage category (RID)	n.d.
	Designation of the goods	n.d.
14.2	Carriage by sea IMDG/GGVSee	
	IMDG/GGVSee-Class	n.d.
	Page	n.d.
	UN-No.	n.d.
	Expended coverage peril	n.d.
	Packing group	n.d.
	EMS-No.	n.d.
	MFAG	n.d.
	Marine pollutant	n.d.
Correct technical designation	n.d.	
14.3	Carriage by air ICAO-TI and IATA-DGR	
	ICAO/IATA Class	n.d.
	UN/ID-No.	n.d.
	Expended coverage peril	n.d.
	Packing group	n.d.
	Correct technical designation	n.d.
15	Regulatory information	
	Designation accordant EC directives	
	Code letter and hazard description of the product	n.d.
	Danger appointing constituent for labeling	n.d.
	R-phrases	n.d.
	S-phrases	n.d.
	National regulations	n.d.
	Categorisation acc. VbF	n.d.
	Technical instruction air	n.d.
Water pollution class	Accordant VwVwS of May 17, 1999 not hazardous to water	

NOTE

This Safety Data Sheet is based on our current knowledge and the experience with the product. It is exclusively meant for reducing the risks at dealing with the product and therefore only describes it with regard to security aspects. The details are no guaranteed characteristics according to our public terms of business. They do not release the user from the compliance of laws, regulations and rules.