Dat	te of Publica	tion: Januar	y 1 st 2010			Page: 1/	
		MSDS	S-No.: BHF-	-US-2010-1-3			
1.	Product and Company Identification						
	Product Name:						
	BIONI	Medical					
	Manufacture			Distributo			
		CS GmbH			and Americas	; LLC	
		ngstr. 21		2236 72nd			
		49 Oberhause	n	0a1a000a,	ЕЦ 34243		
	Germa	-	08 6217553	USA Telephone:	(9/1) 926	5881	
				Fax:			
		Celephone Num			, 200	-	
		-		/ support in	n German and	English)	
	Telep	ohone: +49 0	30 3068679	0			
2.	Composition	/ Informati	on on Ingr	edients			
	<i>Chamina</i> 1, 17	ture of the					
				anotechnology	7		
	ACTATIC COD	orymer emurs	IOII WICII N	anoceciniorogy	, ,		
	Hazardous C	Hazardous Components:			Occupational Exposure Limits		
		CAS Number		_	_		
	Ingredient		Weight %	OSHA PEL	NIOSH REL	ACGIH TLV	
	Silver	7440-22-4	< 1%	0.01 mg/m ³	0.01 mg/m ³	0.1 mg/m ³	
	Silver Titanium		< 1%				
	Silver	7440-22-4	< 1%	0.01 mg/m ³		0.1 mg/m ³	
	Silver Titanium	7440-22-4	< 1%	0.01 mg/m ³ 15 mg/m ^{3**}		0.1 mg/m ³ 10 mg/m ^{3*}	
	Silver Titanium Dioxide	7440-22-4 13463-67-7	< 1% < 20%	0.01 mg/m ³ 15 mg/m ^{3**} *:	0.01 mg/m ³ as Dust **: 1	0.1 mg/m ³ 10 mg/m ^{3*}	
	Silver Titanium Dioxide OSHA: Occupati	7440-22-4 13463-67-7 ional Safety and	< 1% < 20%	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D	0.01 mg/m ³ as Dust **: I ept. of Labour)	0.1 mg/m ³ 10 mg/m ^{3*}	
	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa	7440-22-4 13463-67-7 ional Safety and al Institute for	< 1% < 20% Health Admin Occupationa	0.01 mg/m ³ 15 mg/m ^{3**} *:	0.01 mg/m ³ as Dust **: I ept. of Labour) lth	0.1 mg/m ³ 10 mg/m ^{3*}	
	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa ACGHI: America PEL: Permissab	7440-22-4 13463-67-7 ional Safety and al Institute for an Conference of ple Exposure Lim	< 1% < 20% Health Admin Occupationa Governmenta it	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D l Safety and Hea	0.01 mg/m ³ as Dust **: I ept. of Labour) lth	0.1 mg/m ³ 10 mg/m ^{3*}	
	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa ACGHI: America PEL: Permissak REL: Recommend	7440-22-4 13463-67-7 an Conference of cole Exposure Lim ded Exposure Lim	< 1% < 20% Health Admin Occupationa Governmenta it	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D l Safety and Hea	0.01 mg/m ³ as Dust **: I ept. of Labour) lth	0.1 mg/m ³ 10 mg/m ^{3*}	
	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa ACGHI: America PEL: Permissab	7440-22-4 13463-67-7 an Conference of cole Exposure Lim ded Exposure Lim	< 1% < 20% Health Admin Occupationa Governmenta it	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D l Safety and Hea	0.01 mg/m ³ as Dust **: I ept. of Labour) lth	0.1 mg/m ³ 10 mg/m ^{3*}	
3.	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa ACGHI: America PEL: Permissak REL: Recommend TLV: Threshold	7440-22-4 13463-67-7 an Conference of cole Exposure Lim ded Exposure Lim	< 1% < 20% Health Admin Occupationa Governmenta it	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D l Safety and Hea	0.01 mg/m ³ as Dust **: I ept. of Labour) lth	0.1 mg/m ³ 10 mg/m ^{3*}	
3.	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa ACGHI: America PEL: Permissak REL: Recommend TLV: Threshold Hazards Ide	7440-22-4 13463-67-7 ional Safety and al Institute for an Conference of ble Exposure Lim ded Exposure Lim d Limit Value	< 1% < 20% Health Admin Occupationa Governmenta it	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D l Safety and Hea	0.01 mg/m ³ as Dust **: I ept. of Labour) lth	0.1 mg/m ³ 10 mg/m ^{3*}	
3.	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa ACGHI: America PEL: Permissak REL: Recommend TLV: Threshold Hazards Ide Routes of E	7440-22-4 13463-67-7 ional Safety and al Institute for an Conference of ble Exposure Lim ded Exposure Lim d Limit Value entification	< 1% < 20% Health Admi Occupationa Governmenta it it	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D 1 Safety and Hea 1 Industrial Hyg	0.01 mg/m ³ as Dust **: I ept. of Labour) lth	0.1 mg/m ³ 10 mg/m ^{3*}	
3.	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa ACGHI: America PEL: Permissak REL: Recommend TLV: Threshold Hazards Ide Routes of E INHALATION	7440-22-4 13463-67-7 ional Safety and al Institute for an Conference of ble Exposure Lim ded Exposure Lim d Limit Value Intification Exposure of vapor or	< 1% < 20% Health Admin Occupationa Governmenta dit dit	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D 1 Safety and Hea 1 Industrial Hyg	0.01 mg/m ³ as Dust **: T ept. of Labour) lth ienists	0.1 mg/m ³ 10 mg/m ^{3*}	
3.	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa ACGHI: America PEL: Permissak REL: Recommend TLV: Threshold Hazards Ide Routes of E INHALATION EYE and Ski	7440-22-4 13463-67-7 ional Safety and al Institute for an Conference of ble Exposure Lim ded Exposure Lim d Limit Value Intification Exposure of vapor or n contact wi	< 1% < 20% Health Admin Occupationa Governmenta dit dit	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D 1 Safety and Hea 1 Industrial Hyg	0.01 mg/m ³ as Dust **: T ept. of Labour) lth ienists	0.1 mg/m ³ 10 mg/m ^{3*}	
3.	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa ACGHI: America PEL: Permissak REL: Recommend TLV: Threshold Hazards Ide Routes of E INHALATION EYE and Ski Effects of	7440-22-4 13463-67-7 ional Safety and al Institute for an Conference of De Exposure Lim ded Exposure Lim ded Exposure Lim ded Exposure Lim ded Exposure of contification Exposure of vapor or .n contact wi	< 1% < 20% Health Admin Occupationa Governmenta dit dit	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D 1 Safety and Hea 1 Industrial Hyg	0.01 mg/m ³ as Dust **: T ept. of Labour) lth ienists	0.1 mg/m ³ 10 mg/m ^{3*}	
3.	Silver Titanium Dioxide OSHA: Occupati NIOSH: Nationa ACGHI: America PEL: Permissak REL: Recommend TLV: Threshold Hazards Ide Routes of E INHALATION EYE and Ski Effects of EYES: Irrit	7440-22-4 13463-67-7 ional Safety and al Institute for an Conference of ble Exposure Lim ded Exposure Lim d Limit Value Intification Exposure of vapor or n contact wi Exposure ation	< 1% < 20% Health Admin Occupationa Governmenta dit dit spray mist th the pro	0.01 mg/m ³ 15 mg/m ^{3**} *: nistration (US D 1 Safety and Hea 1 Industrial Hyg	0.01 mg/m ³ as Dust **: T ept. of Labour) lth ienists	0.1 mg/m ³ 10 mg/m ^{3*}	

INGESTION: Although ingestion is not considered a significant route of exposure, this material may cause gastrointestinal irritation if ingested.

Product: BIONI Medical				
Dat	e of Publication: January 1 st 2010 Page: 2/7			
	MSDS-No.: BHF-US-2010-1-3			
4.	First Aid Measures			
	<pre>General Information In all cases of doubt, or when symptoms persist, seek medical advice and show this Safety Data Sheet. Inhalation If affected, remove from exposure and seek medical advice. Skin Wash skin with soap and plenty of water. Get medical attention if symptoms occur. Eyes Flush eyes with large amounts of water for 15 minutes. Get medical attention. Incontion</pre>			
	<i>Ingestion</i> If swallowed, seek medical advice immediately. Do not induce vomiting.			
5.	Fire Fighting Measures			
	<pre>Flash Point No Data Suitable extinguishing media Use Water fog (or if unavailable fine water spray), alcohol foam, dry agent (carbon dioxide, dry chemical powder). Protection of Firefighters Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing.</pre>			
6.	Accidental Release Measures			
	<pre>Personal Precautions Wear adequate personal protective equipment (see section 8). Environmental Precautions Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Methods of Cleaning Up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).</pre>			
7.	Handling and Storage			
	<i>Handling</i> Keep area ventilated. Avoid contact with eyes, skin and clothing. For personal protection see Section 8.			

	ate of Publi	cation: Janua	ary 1st 20	10		Page: 3	
		MS	DS-No.: BH	IF-US-2010-1-	3		
7.	Handling and Storage (cont'd)						
	Storage Keep container tightly closed when not in use. Store in cool, frost- free, dry and well-ventilated place away from sources of heat and combustible materials. Keep out of reach of children. Hygiene Practices Wash thoroughly after handling. Avoid contact with eyes and skin.						
3.	Exposure	Controls / Po	ersonal Pr	otection			
	This product may contain materials classified as nuisance particu which may be present at hazardous levels only during sanding or ab of the dried coating film. The applicable limits for nuisance dusts Occupational Exposure Limits			ing or abradi: ance dusts ar			
	Ingredient	CAS Number	Weight %	OSHA PEL	NIOSH REL	ACGIH TLV	
	11191 0410110		Nelgiic v	8-hour TWA	10-hour TWA	8-hour TWA	
	Silver	7440-22-4	< 1%	0.01 mg/m ³	0.01 mg/m ³	0.1 mg/m ³	
	Titanium Dioxide	13463-67-7	< 20%	15 mg/m^3		10 mg/m^3	
	<pre>Engineering controls and hygienic practices Ensure adequate ventilation and avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Remove contaminated clothing. When using do not eat, drink and smoke. Wash hands after using. Handle in accordance with good industrial hygiene and safety practice Personal protective Equipment:</pre>						
	Wash hand Handle in	accordance	with good	industrial hy	ygiene and sa	fety practice	
	Wash hand Handle in Personal	accordance of a	with good	industrial hy	ygiene and sa	fety practice	
	Wash hand Handle in Personal Respirato Not requis the dried for dust or the ab Hand Prot	accordance of protective Ed ry System red in case of paint film, which may be rasive.	with good quipment: of sufficie wear a dus generated	ent ventilati st/mist respi:	ygiene and sa on. When sand rator approved roduct, under:	ing or abradi d by NIOSH/MS	

Use protective clothing.

Da	te of Publication: January 1 st 2	.010	Page: 4/'		
	MSDS-No.: 1	BHF-US-2010-1-3			
9.	Physical and Chemical Properties				
	Form: Colour: Odour: Flash Point: Specific Gravity at 20°C Water Solubility: pH: VOC content:	liquid white almost odourless no data 1.15 g/cm ³ Miscible with water 8.5 - 9.5 < 5 g/l			
10.	Stability and Reactivity				
	Chemical Stability Stable under normal conditions Conditions to Avoid Heat, flames, incompatible mat below 0°C (32 °F). Materials to avoid Stable under recommended stora (see section 7). Hazardous Decomposition Produce None known under normal condit	cerials and freezing temperat age and handling conditions ets	ures		
11.	Toxicological Information				
	Silver is not listed as a huma Inhalation of high amounts of damage with pulmonary oedema. I may cause a grey-blue discolor (argyria/argyrosis). Rats exposed to <i>Titanium Dioxic</i> Such exposure levels are not a	metallic silver vapours may Repeated long-term exposure t cation of the eyes, nose, thr de dust at 250 mg/m ³ developed	cause lung o silver dust oat and skin lung cancer.		
	is handled in accordance with label no adverse health effect may arise if the product is mi	this Safety Data Sheet and t ts are expected. Symptoms or	he product effects that		
	label no adverse health effect	this Safety Data Sheet and t ts are expected. Symptoms or ishandled and overexposure oc	he product effects that		

No LD50 data available for the product.

Dat	e of Publication: January 1 st 2010	Page: 5/
	MSDS-No.: BHF-US-2010-1-3	
12.	Ecological Information	
	Do not allow to enter drains or watercourses.	
	Silver may be hazardous to the environment; special attention be given to aquatic organisms.	should
13.	Disposal Considerations	
	Product Recommendation: Do not allow to enter drains or watercourses. Handle disposal of waste material in manner which complies to state, province and federal laws and regulations.	local,
	<i>Packaging</i> Recommendation: Dispose according to local regulations.	
14.	Transport Information	
	DOT Hazard Classification: No	
	IMO/IMDG (Sea) and IATA/ICAO (Air): NON-DANGEROUS GOOD	
15.	Regulatory Information	
	TSCA (Toxic Substances Control Act) Certification TSCA Inventory:	
	All chemicals in this products are listed, or are exempt from on the TSCA INVENTORY.	listing,
	SARA (Superfund Amendments and Reauthorization Act of 1986) TITLE III Section 302	
	Extremely Hazardous Substances (EHSs) / 40 CFR Part 355: There are no components present in this product at a level white require reporting under the statute.	ich could
	CERCLA (Comprehensive Environmental Response Compensation and Act of 1980) Hazardous Substances / 40 CFR Part 302.4: Following Chemicals in this product are listed: Silver Releases in quantities equal or greater than Reportable Quant: There are no components present in this product at a level whi	ity (RQ):

Pr	Product: BIONI Medical			
Da	te of Publication: January 1 st 2010 Page: 6/			
	MSDS-No.: BHF-US-2010-1-3			
.5.	Regulatory Information (cont'd)			
	EPCRA (Emergency Planning and Community Right-to-Know Act) Section 313 Toxic Chemical Release / 40 CFR Part 372: Following Chemicals in this product are listed: Silver (CAS 7740-22-4) The concentration of Silver in this product is lower than the "De Minimi Concentration" of 1%. There are no components present in this product at a level which could require reporting under the statute.			
	EPCRA (Emergency Planning and Community Right-to-Know Act) Section 311/31 Hazardous Chemical Storage Reporting Requirements / 40 CFR Part 370: Hazard Category Compensation For Reporting Under Sections 311 and 312 (for this product): Fire Hazard: No Sudden Release of Pressure: No Reactive: No Immediate (Acute) Health Hazards: No			
	Delayed (Chronic) Health Hazard: No OSHA (Occupational Safety and Health Standard) <i>Toxic and Hazardous Substances/ 29 CFR Part 1910 Subpart Z:</i> Following Chemicals in this product are listed: Silver (CAS 7740-22-4): 0.01 mg/m ³			
	Titanium Dioxide (CAS 13463-67-7): (15 mg/m ³) Total Dust CLEAN WATER ACT Silver (CAS 7740-22-4) is listed as a PRIORITY POLLUTANT and as TOXIC POLLUTANT under the Clean Water Act (CWA).			
	CLEAN AIR ACT - CAA Section 112(r) Toxic and Flammable Substances / 40 CFR 68.130 There are no components present in this product listed.			
	STATE-RIGHT-TO-KNOW:			
	California Proposition 65 This product contains no "CHEMICALS KNOWN TO THE STATE TO CAUSE CANCEF OR REPRODUCTIVE TOXICITY".			
	Massachusetts Right to Know Substance List (MSL) (105 CMR Section 670.000 There are no components present in this product at a level which could require reporting under the statute.			
	Pennsylvania Right to Know Hazardous Substance List Following Chemicals in this product are listed: Silver (CAS 7740-22-4) Silver is part of the ENVIRONMENTAL Hazard list.			

Product: BIONI Medical Page: 7/7 MSDS-No.: BHF-US-2010-1-3 15. Regulatory Information (cont'd) California SCAQMD (South Coast Air Quality Management District) Rule 443.1: VOC's (Volatilic Organic Compounds) This product contains < 1% by weight VOC. CANADA DSL (Domestic Substances List) All chemicals in this products are listed on the DSL. WHMIS (Workplace Hazardous Materials Information System) Ingredient Disclosure List Following Chemicals in this product are listed: Silver (CAS 7740-22-4) Disclosure at 1,0% according to the ingredient disclosure list. The concentration of Silver in this product is lower than the 1%. There are no components present in this product at a level which could require reporting under the statute. NPRI (National Pollutant Release Inventory) Following Chemicals in this product are listed: Silver (CAS 7740-22-4) 16. Other Information The information in this MSDS was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.