

according to EU Regulation 2015/830 - Status: 28.05.2015 DOKUMENT: Q-M-QC_SDB-0002

Date of issue: 08.03.2018 Version: 1.0 Replacement for the data sheet from --- Version: ---

"*" Changes compared to previous version, n. a. = not available, n. v. = not valid

TRADE NAME: S-Bond®

SUPPLIER: EUROMAT GmbH Hermann-Hollerith-Straße 6, 52499 Baesweiler - Germany

Tele	fon: +49.(0)2401.60.72.866 Telefax: +49.(0)2401.60.72.866 E-Mail: input@euromat.de		
SECTION 1:	DESIGNATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY		
1.1	Product identifier		
	Trade name: S-Bond®		
	Item number: SB140-1		
	Recipe number: n. a.		
	Registration number: n. a.		
1.2	Relevant identified use of the substance or mixture and Uses advised against		
	Application: Solder alloy for joining materials in soldering processes.		
1.3	Details of the supplier providing the safety data sheet		
1.3.1	Responsible for the safety data sheet		
	EUROMAT GmbH		
	Hermann-Hollerith-Str. 6 – 52499 Baesweiler, GERMANY		
	Phone: +49.(0)2401.60.72.866 Fax: +49.(0)2401.60.72.855		
	E-Mail: input@euromat.de Web: www.euromat.de		
1.4	Emergency number		
	SUPPLIER: EUROMAT GmbH		
	Phone: +49.(0)2401.60.72.866 Accessibility: Mo. – Fr.: 09:00 - 17:00 Uhr		
	COUNSELING CENTER: n. a.		
	Phone: Accessibility:		
SECTION 2:	POSSIBLE DANGERS		
2.1	Classification of the substance or mixture		
	none Exemption according to Annex I Number 1.3.4.1 EC 1272/2008		
2.2	Labeling elements		
	Required to be labeled according to Regulation (EC) NO 1272/2008:		
	Are exceptions applicable: YES		
	Signal word: n. a.		
	Components Bi, Sn, Ag, Ti		
	Hazard Pictogram(s): n. a.		



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Т	elefon: +49.(0)2401.6	0.72.866 Telefax:	+49.(0)2401.60.7	2.866 E-Mail:	input@euromat.de	
2.2	Labeling elem	nents (continue	ed)			
	H-phrases:	H-phrases:				
	n. a.					
	P-phrases:	P-phrases:				
	n. a.					
	Sp	ecial markings:	none			
2.3	Other hazards	s				
	May irritate the	e mucous membrane	of precious metal alle es of the stomach if s substances assessed	swallowed		
SECTION 3:	COMI	POSITION / I	NFORMATION	ON THE COMP	ONENTS	
3.1	Fabrics					
	n. a.					
3.2	MIXTURES					
	CHEMICAL CHA	ARACTERIZATIO	N			
	Mixture alloy					
	Ingredients:					
	Designation:	Bismuth - Bi				
	CAS no:	EC no:	REACH no:	H-Phrases	m% - range	
	7440-69-9	231-177-4	n. v.		50,0 – 55,0	
	Designation:	Tin - Sn		T = .		
	CAS no:	EC no:	REACH no:	H-Phrases	m% - range	
	7440-31-5	231-141-8	n. v.		40,0 – 45,0	
	Designation:	Silver - Ag				
	CAS no:	EC no:	REACH no:	H-Phrases	m% - range	
	7440-22-4	231-131-3	n. v.		1,5 – 2,8	
	Designation:	Titanium - Ti	-			
	CAS no:	EC no:	REACH no:	H-Phrases	m% - range	
	7440-32-6	231-142-3	n. v.		1,8 – 2,8	
	Designation:		ve foreign substar			
	CAS no:	EC no:	REACH no:	H-Phrases	m% - range	
	n. a.	n. a.	n. a.		≤ 0,3	
	Designation:		ctive foreign subst			
	CAS no:	EC no:	REACH no:	H-Phrases	m% - range	
	n. a.	n. a.	n. a.		≤ 0,3	
SECTION 4:		FIRST AID MEASURES				
4.1	Description o	f the first aid r	neasures			
4.1.1	After inhalati	on:				
	n. a. for solidmolten solder of					



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4.1.2	After skin contact			
	 n. a. for solid melted solder can cause burns, cool combustion Consult a doctor if symptoms persist 			
4.1.3	After eye contact			
	 n. a. für solid melted solder causes burns if solder splashes into the eyes, rinse immediately and seek medical attention 			
4.1.4	After ingestion			
	 for solid: consult a doctor if nausea persists melted solder causes burns, rinse out the oral cavity and consult a doctor 			
4.2	Important acute and delayed symptoms and effects			
	one one			
4.3	Indications for immediate medical help or special treatment			
	 none symptomatic treatment			
SECTION 5:	FIREFIGHTING MEASURES			
5.1	Extinguishing agent			
5.1.1	Suitable extinguishing agents			
	Ory chemical extinguishing agent, D extinguishing powder, sand, dry ice			
5.1.2	Extinguishing agents unsuitable for safety reasons			
	Water, can lead to steam explosion.			
5.2	Special hazards arising from the substance or mixture			
	⑤ from boiling point, smoke from metal oxides			
5.3	Advice for fire fighting			
5.3.1	Special protective equipment			
	Put on self-contained breathing apparatus with full face mask			
5.3.2	Additional notes			
SECTION 6:	ACTION TO BE TAKEN IN THE EVENT OF UNAUTHORIZED RELEASE			
6.1	Personal precautions, protective equipment and emergency procedures. procedures to be followed in case of emergency.			
	n. a. for solidmolten solder, see chapter 8.2.2			
6.2	Environmental protection measures			
	No special measures required			



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6.3	Methods and material for retention			
	⊛ n. a.			
6.4	References to other sections			
	© <u>none</u>			
SECTION 7:	HANDLING AND STORAGE			
7.1	Protective measures for safe handling			
7.1.1	Note on safe handling			
	 Wash hands before breaks and at the end of work. Do not eat, drink or smoke during use (soldering). 			
7.1.2	Notes on fire and explosion protection			
	Not at risk of fire or explosion, observe usual preventive fire protection measures.			
7.2	Conditions for safe storage taking into account Incompatibilities			
7.2.1	Requirements for storage rooms and containers			
	③ store dry			
7.2.2	Methods of storage together			
	avoid contact with strong acids or bases.			
7.2.3	Further information on storage conditions			
	⊚ n. a.			
7.3	Specific end use			
	⊗ n. a.			
SECTION 8:	EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT			
8.1	Parameters to be monitored			
	Substance name Monitoring value			
	Mixture – Bismuth, tin, silver, titanium 💿 n. a.			
8.2	Exposure controls and monitoring			
8.2.1	Suitable technical control equipment			
	S Ensure good ventilation and fume hood during processing.			
8.2.2	Individual security measures			
8.2.2a	Respiratory protection			
	 Not required for solids not required during processing 			



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8.2.2b	Hand protection				
	 Not required for solids a protective glove in accordance with EN 388 and EN 407 must be worn during processing. The selection of a suitable glove depends not only on the material, but also on the quality and varies from manufacturer to manufacturer. Please observe the specifications of the glove supplier with regard to permeability and breakthrough time. Also consider the specific local conditions under which the product will be used, such as cut the product is used, such as cut hazard, abrasion and contact duration. 				
8.2.2c	Eye protection				
	 Not required for solids there is a possible risk of splash contact during processing: Wear protective goggles 				
8.2.2d	Body protection				
	Wear long-sleeved work clothes				
8.2.2e	Other				
8.2.3	Environmental exposure controls and monitoring				



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SECTION 9:	PHYSICAL AND CHEMICAL PROPERTIES				
9.1	Information on the basic physical and chemical properties a) Appearance				
	Shape: Solid in various form	20			
	Color: Silver gray glossy				
	b) Odor	c) Odor threshold			
	Material is odorless	n. a.			
	d) pH value				
	n. v.				
	e) Melting point	f) Boiling point			
	140 °C bis 150 °C	> 1.800 °C			
	g) Flash point	7 1000 0			
	n. v.				
	h) Evaporation rate				
	n. v.				
	i) Flammability				
	Fine-grained powder tends to self-ignition	in air			
	j) upper / lower flammability or explosion limit				
	the material is not explosive. Note the possibility of formation of an explo	osive air-dust mixture.			
	k) Vapor pressure	I) Vapor density			
	n. v.	n. v.			
	m) Relative density				
	8,5 g per cm³				
	n) Solubilities				
	Not soluble				
	o) Partition coefficient: n-octanol / wat	er			
	n. v.				
	p) Auto-ignition temperature	q) Decomposition temperature			
	n. a.	n. v.			
	r) Viscosity				
	n. v.				
	s) explosive properties				
	n. v.				
	t) oxidizing characteristics				
	thin oxide skin, no hazard				
L					



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Version:

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E-Mail:

input@euromat.de

9.2	Other information
	⊚ n. a.

ABSCHNITT 10:	STABILITY AND REACTIVITY
10.1	Reactivity
	® <u>none</u>
10.2	Chemical stability
	stable under normal condition
10.3	Possible dangerous reactions
	⊚ reacts with strongly oxidative agents
10.4	Conditions to avoid
	® n. a.
10.5	Incompatible materials
	reacts with strong acids and base
10.6	Hazardous decomposition products
	 No decomposition when stored and used as directed No thermal decomposition



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SECTION 11:	TOXICOLOGICAL DATA		
11.1	Information on toxicological effect		
	a) acute toxicity:		
	③ n. v.		
	b) Corrosive/irritant effect on skin:		
	◎ n. v.		
	c) severe eye damage/irritation:		
	◎ n. v.		
	d) Respiratory / Skin Sensitization:		
	◎ n. v.		
	e) Germ cell mutagenicity:		
	◎ n. v.		
	f) Carcinogenicity:		
	◎ n. v.		
	g) Reproductive toxicity:		
	◎ n. v.		
	h) Specific target organ toxicity at single exposure:		
	③ n. v.		
	i) Specific target organ toxicity in case of repeated exposure: onumber of the image of the ima		
	j) Aspiration hazard:		
	③ n. v.		
11.1.1	Practical experience		
	11.1.4 © Derogation for the mixture see 2.1		
	11.1.11 ⊗ n. v.		
	11.1.12 There are no observations relevant to classification.		
SECTION 12:	ENVIRONMENTAL DISCLOSURES		
12.1	Toxicity		
	② Quantitative data on the ecological effect of this mixture are not available.		
12.2	Persistence and degradability		
	No data available for the product.		
12.3	Bioaccumulative potential		
	⊗ n. v.		
12.4	Mobility in soil		
	⊗ n. v.		



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12.5	Results of PBT and vPvB assessment			
	This mixture does not contain any substances assessed as PBT or vPvB.			
12.6	Other adverse effects			
SECTION 13:		NOTES ON DISPOS	AL	
13.1	Waste treatment proces	SS		
	Recommendation: © R 4 Rec	ycling / recovery of metals and	metal compounds	
	Waste code - No.: 17.0	04.07 - mixed metals		
	In addition, local and official reg	ulations must be observed.		
13.2	For uncleaned packagin	g		
	Recommendation: © n. a			
	Safe handling: n. a			
SECTION 14:	1	RANSPORT INFORMA	TION	
14.1	UN-Nummer			
	ADR	IMDG		IATA
	No dangerous goods classification according to the valid directives.			
14.2	UN proper shipping nan	ne		
	ADR	IMDG		IATA
	No dangerous goods clas	sification according to the valid	directives.	
14.3	Transport hazard class			
	ADR	IMDG		IATA
	No dangerous goods classification according to the valid directives.			



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l ele	efon: +49.(0)2401.60.72.866	Telefax:	+49.(0)2401.60.72.866	E-Mail:	input@euromat.de
14.4	Packing group				
	ADR		IMDG		IATA
	No dangerous goods	classification	according to the valid dir	ectives.	
14.5	Environmental hazar	ds			
	ADR		IMDG		IATA
	No dangerous goods (classification	according to the valid dir	ectives.	
14.6	Special precautions f	or the us	er		
	ADR		IMDG		IATA
	No dangerous goods of the second of	classification	according to the valid dir	ectives.	
14.7	Bulk transport accord MARPOL 73 / 78 Con			e IBC Cod	le
	ADR		IMDG		IATA
	No dangerous goods	classification	according to the valid dir	ectives.	
SECTION 15:			LEGAL		
15.1	Safety, health and en specific legislation fo				
	⊗ n. v.				
15.1.1	Observe employment	restricti	ons according to M	luSchG / 3	JArbSchG
	® no				
15.1.2	Observe storage obli	gation ac	cording to §8 (6) (GefStoffV	
	∞ neo				
15.1.3	Observe the Major Ad	ccidents (Ordinance		
	◎ no				
15.1.4	Technical Instruction	Air			
	◎ n. a.				
15.1.5	Water hazard class				
	WGK 1: slightly hazarSolid practically insolu				
15.1.6	Observe the regulato	ry scope	of TRGS 900		
	⊗ no				



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input@euromat.de

15.1.7	Other regulations to be o	hserved			
10:117	© none	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
ABSCHNITT 16:	OTHER DISCLOSURES				
16.1	Notes on changes				
	This safety data sheet is a Jan. 2006				
16.2	Exposure parameters out	tside Germany			
	Country code	Norm	Limit value		
	B, F, I, P	VME (TWA)	Bi – n. a. Sn – 2,0 mg/m³ Ag – 0,1 mg/m³ Ti – n. a.		
	N, USA	TLV	Bi – n. a. Sn – 2,0 mg/m³ Ag – 0,1 mg/m³ Ti – n. a.		
16.3	Sonstiges				
	 This SDS has been prepared in accordance with EU Regulation. The information may not be changed or transferred to other products. Reproduction is permitted only in unaltered condition. The information provided is based on our current knowledge. This SDS has been compiled and is intended solely for this product. 				

Telefax:

EUROMAT GMBH does not guarantee the correctness of the above values. Values were determined in the laboratory and may vary depending on the batch. We recommend that you check the values yourself after receipt of the goods.



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