

According to Regulation (EU) 2020/878, amending Annex II of Regulation (EC) No 1907/2006

(REACH) BROFIL PB WITH FLUX

Printing date: 05/01/2023 Revision date: 05/01//2023 Version: 6 Page: 1 / 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

1.1. Product identifier	:			
Trade name	Regulation	Composition metal nº.	Description	UFI
BROFIL 25	UNE-EN ISO 9453	136	Sn25/Pb75	J6D1-G0GG-3003-JWF1
BROFIL 30	UNE-EN ISO 9453	116	Sn30/Pb70	43D1-Y0T2-S00M-VJUY
BROFIL 40	UNE-EN ISO 9453	114	Sn40/Pb60	T1D1-G03P-G004-778W
BROFIL 50	UNE-EN ISO 9453	111	Sn50/Pb50	4XC1-Y0E9-500M-JVPU
BROFIL 60	UNE-EN ISO 9453	103	Sn60/Pb40	MT10-H0T4-F00K-QCJX
BROFIL 63	UNE-EN ISO 9453	102	Sn63/Pb37	9W10-10GH-S002-DQ50

Flux name	Classification and regulation	
B0.1	1.1.2.B (EN ISO 9454) / ROL1 (J-STD-004) EN 61190 1-3	
B0.2	1.1.3.B (EN ISO 9454) / ROLO (J-STD-004) EN 61190 1-3	
B1.1	1.2.2.B (EN ISO 9454) / REM1 (J-STD-004) EN 61190 1-3	
B1.2	1.2.3.B (EN ISO 9454) / REM0 (J-STD-004) EN 61190 1-3	
B2.1	1.1.2.B (EN ISO 9454) / ROM1 (J-STD-004) EN 61190 1-3	
PW-15	1.1.2.B (EN ISO 9454) / ROM1 (J-STD-004) EN 61190 1-3	
B2.2	1.1.3.B (EN ISO 9454) / ROMO (J-STD-004) EN 61190 1-3	
B3.1	2.1.3.B (EN ISO 9454) / ORM1 (J-STD-004) EN 61190 1-3	
B3.2	3.1.1.B (EN ISO 9454) / INM1 (J-STD-004) EN 61190 1-3	
B4.1	1.2.2.B (EN ISO 9454) / REL1 (J-STD-004) EN 61190 1-3	
B4.2	1.2.3.B (EN ISO 9454) / REL0 (J-STD-004) EN 61190 1-3	

1.2. Relevant identified uses of the substance or mixture and uses advised against Identified uses	: For automated and manual weldi	ing. Surface mount components of the electronics industry	
	assembly, where a lead alloy has been specified. For own, professional and industrial use.		
Uses advised against	: Do not use for other purposes other than those described in the product.		
1.3. Details of the supplier of the safety		Supplier: Transfer Multisort Elektronik Ltd.	
data sheet		Coleshill, Birmingham Coleshill House Suite 1C, 1 Station Road	
Supplier	BROQUETAS, S.L.c/ Can Sallarès 12-16	-	
Address		+44 1675790026 e-mail: office@tme-uk.eu	
	08740 Sant Andreu de la Barca,	Barcelona (Spain)	
Telephone number	: +34 936401900		
E-mail address for a competent person responsible for the safety data sheet:	: broquetas@broquetas.com		
1.4. Emergency telephone number	: +34 936401900		
Availability	: Monday to Friday from 8:00 to 14	k:00 h.	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) Nº 1272/2008 [CLP]		
Hazard Classes/ categories Hazard statements (H)		
Skin Sens. 1	H317: May cause an allergic skin reaction.	
Repr. 1A	H360FD: May damage fertility or the unborn child.	
Lact.	H362: May cause harm to breast-fed children.	
STOT RE 1 H372: Causes damage to organs through prolonged or repe		



According to Regulation (EU) 2020/878, amending Annex II of Regulation (EC) No 1907/2006 (REACH)

BROFIL PB WITH FLUX

Printing date: 05/01/2023

Revision date: 05/01//2023

Version: 6 Page: 2/8

exposure.

2.2. Label elements

According to Regulation (EC) № 1272/2008 [CLP]			
Signal Word and Pictograms	Hazard statements (H)	Precautionary Statements (P)*	
Danger GHS07 GHS08	H317: May cause an allergic skin reaction. H360FD: May damage fertility or the unborn child. H362: May cause harm to breast-fed children. H372: Causes damage to organs through prolonged or repeated exposure.	P201 P260 P263 P273 P280 P308+P313 P501	

* Full text of the Precautionary Statements (P):

P201: Obtain special instructions before use.

P260: Do not breathe dust/fume/gas/mist/vapours/ spray.

P263: Avoid contact during pregnancy/while nursing.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P501: Dispose of contents/ container to an approved waste disposal plant.

Substances that contribute to the classification of the mixture	: Lead, Rosin.
Supplemental information	: Restricted to professional users.
2.3. Other hazards	
Compliance with PBT/vPvB criteria	: Not applicable.
Other hazards not identified in the classification	: Due to the high temperatures reached when working with this product, burns caused by molten material may occur. It can be harmful and produce health damage by inhalation of vapours emitted during the welding process. It should be used in ventilated areas. It has no known endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	Content (%)	CAS number	CE number	REACH registration	Clasification according Regulation 1272/2008 (CLP)**
Tin (Sn)	25-63	7440-31-5	231-141-8	01-2119486474-28- XXXX	Not classified
Lead (Pb)*	37-75	7439-92-1	231-100-4	01-2119513221-59- XXXX	Repr. 1A H360FD Lact. H362 STOT RE 1 H372
Rosin	~3	8050-09-7	232-475-7	Not applicable (<1T/year)	Skin Sens. 1 H317

*The Lead is included in the Annex VI of Regulation (EC) No 1272/2008 (CLP) as lead metal massives and high purity grade: [particle diameter ≥1mm].

** Full text of the Hazard Statements (H): See Section 16.

***The product does not contain known nanomaterials.



According to Regulation (EU) 2020/878, amending Annex II of Regulation (EC) No 1907/2006 (REACH) BROFIL PB WITH FLUX

Printing date: 05/01/2023 Revision date: 05/01//2023 Version: 6 Page: 3 / 8

1.1. Description of first aid measures	
General notes	: If a health problem is detected, seek medical advice.
In case of inhalation	: Remove victim to fresh air and seek medical advice.
In case of contact with skin	: Wash skin thoroughly with mild soap and water. Consult a doctor if symptoms persist.
In case of contact with eyes	: Immediately rinse long with water for several minutes holding the eyelids open. Consult an ophthalmologist immediately.
In case of ingestion	: Consult a doctor immediately. Do not induce vomit. If the person is conscious, rinse mouth with water. DO NOT give water to an unconscious person. (Under the right conditions of use, the product is not ingestible).
Recommendations for first aid responders	: Undetermined.
4.2. Most important symptoms and effects, both acute and delayed	: May cause skin irritation, especially if exposure is repeated. May cause irritation by inhalation of vapours during application, if exposure is prolonged and in a small, poorly ventilated space.
4.3. Indication of any immediate medical attention and special treatment needed	: Symptomatic treatment.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use chemical powder, foam or water fog.
Unsuitable extinguishing media	: Unknown.
5.2. Special Hazards arising from the substance or mixture	
Hazardous combustion products	: Vapours of oxides and fumes of metals.
Other specific hazards	: Smoke released by the combustion of the product may cause damage in the airways.
5.3. Advice for firefighters	: In case of fire, use individual respiratory protection equipment. Firefighters must wear fire resistar protection equipment.

procedures	
For non-emergency personnel	: Follow the indications described in section 8.
For emergency responders	: Avoid contact with skin, eyes and clothing. Follow the indications described in section 8.
6.2. Environmental precautions	: Avoid contact with drains and riverbeds.
6.3. Methods and material for containment and cleaning up	Collect the product mechanically. To completely remove, clean the surface with water.
6.4. Reference to other sections	: For more information, see sections 8 and 13.



SAFETY DATA SHEET According to Regulation (EU) 2020/878, amending Annex II of Regulation (EC) No 1907/2006 (REACH) BROFIL PB WITH FLUX

Printing date: 05/01/2023

Revision date: 05/01//2023

Version: 6

Page: 4 / 8

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Prevention and protection measures	Handle the product carefully. During the welding process the product attains high temperatures so using suitable globes and eye protection and wearing a mask in poorly ventilated areas is recommended, as it is described in section 8.2.		
Advice on general occupational hygiene	Do not eat, drink or smoke while handling the product. Keep proper hygiene after handling.		
7.2. Conditions for safe storage, including any compatibilities			
Technical measures and storage conditions	: Storage temperatures above 60 ° C should be avoided.		
Containers requirements and storage areas	: Store in tightly closed containers in a dry location.		
Further information for storage	: Keep container tightly closed.		
7.3. Specific end use (s)	: Product for professional use in welding at low temperatures. For the assembly of surface mount components of the electronics industry, where a lead alloy and a low temperature has been specified.		
SECTION 8: Exposure controls/person	al protection		
3.1. Control parameters			
Occupational exposure limits : Data for UK: Tin, inorganic compounds (CAS 7440-31-5): No data available. Tin compounds, inorganic, except SnH4 (CAS 7440-31-5): 2 mg/m3 (8 hours); 4 term). Lead and inorganic compounds (CAS 7439-92-1): 0,15 mg/m3 (8 hours).			
DNELs and PNECs	: Not available.		
3.2. Exposure controls			
Appropriate engineering controls	: It is recommended the use in open or well-ventilated areas or the use of forced mechanical extraction.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	 Safety goggles to avoid splashes. <u>PPE</u>: Protection glasses with integrated mount. <u>Characteristics</u>: 'CE' Category II. Eye protector with integrated mount to use against dust, fumes, fog and vapours. <u>CEN standards</u>: EN 165, EN 166, EN 167, EN 168 <u>Maintenance</u>: Visibility through lenses should be optimal, so their daily cleaning is required, Protectors should be disinfected periodically following the manufacturer's instructions. <u>Observations</u>: Indicators of deterioration include: yellow colouring of the lenses, superficial scratching of the lenses, scraping, etc. 		
Skin protection			
Hand protection	 Use resistance gloves for tiny molten metal splashes. <u>PPE</u>: Protection gloves against tiny molten metal splashes. <u>Characteristics:</u> 'CE' Category III. <u>CEN standards</u>: EN 407: 2004, UNE-EN 12477:2002 <u>Maintenance</u>: They should be stored in a dry place, away from heat sources, and the exposure to sunlight should be avoided as much as possible. Do not perform modifications o the gloves that may alter their resistance, and do not apply any paints, solvents or adhesives. <u>Observations</u>: Gloves should be of the right size and fit the hand without being too loose or too tight. They should always be used with clean, dry hands. 		
Others	: Use appropriate protective clothing.		

BROQUETAS LA SOLDADURA SEGURA - THE RELIABLE SOLDER	According to Regulation (EU) 2020	ETY DATA SHEET /878, amending Annex II of Regulation (EC) No 1907/2006 (REACH) OFIL PB WITH FLUX Version: 6 Page: 5/8
Environmental exposure controls	Characteristics: 'CE' Categor shaped to provide sealing ar <u>CEN standards</u> : EN 136, EN <u>Maintenance</u> : Do not store in before use. The state of the specially controlled. <u>Observations</u> : Read carefully of equipment.	on against gases and particles y III. The mask must have a wide field of vision and anatomically d tightness. 140, EN 405 l locations exposed to high temperatures and damp environments inhalation and exhalation valves of the face adapter must be y the manufacturer's instructions about the use and maintenance cautions to protect the environment, see section 6.2.
SECTION 9: Physical and chemical pr	operties	
9.1. Information on basic physical and chemical properties Appearance	: Dark gray solid.	
Odour	: Not significant.	
Odour threshold	: Not applicable.	
рН	: Not applicable.	
Melting point/freezing point	: 183-263ºC	
Initial boiling point and boiling range	: Not applicable.	
Flash point	: Non flammable.	
Evaporation rate	: Not applicable.	
Flammability (solid, gas)	: Non flammable.	
Upper/lower flammability or explosive limits	: Not applicable.	
Vapour pressure	: Not applicable.	
Vapour density	: Not applicable.	
Relative density	: 9.4-11.3 g/cm ³	
Solubility(ies)	: Water-insoluble.	
Partition coefficient: n- octanol/water	: Not applicable.	
Auto-ignition temperature	: Not applicable.	
Decomposition temperature	: Not applicable.	
Viscosity	: Not applicable.	
Explosive properties	: No.	
Oxidising properties	: No.	
9.2. Other information	: No additional information.	

SECTION 10: Stability and reactivity

B	SAFETY DATA SHEET According to Regulation (EU) 2020/878, amending Annex II of Regulation (EC) No 1907/2006 (REACH) BROFIL PB WITH FLUX		
BRUUL IETAS	Printing date: 05/01/2023 Version: 6		
LA SOLDADURA SEGURA · THE RELIABLE SOLDER	Revision date: 05/01//2023	Page: 6 / 8	
10.1. Reactivity	: Stable under normal conditions (do	bes not react).	
10.2. Chemical stability	: Stable under normal conditions.		
10.3. Hazardous reactions	: Heating may cause fumes containing chlorides.		
10.4. Conditions to avoid	: Storage temperatures above 60 ° 0	: Storage temperatures above 60 ° C should be avoided.	
10.5. Materials to avoid	: Contact with strong acids and base	es that may cause exothermic reactions should be avoided.	
10.6. Hazardous decomposition products	: Not available.		
SECTION 11: Toxicological information	'n		
11.1. Information on toxicological effects			
Hazard/Effect class Acute toxicity	: Tin (CAS: 7440-31-5):		
	LC50 (Inhalation)> 5 mg/L LD50 (Oral)> 2000 mg/kg LD50 (dermal)>2000 mg/kg LC50 (Inhalation)>5,05 mg/L LD50 (Oral)> 2000 mg/kg LD50 (dermal)>2000 mg/kg LD50 (dermal)>2000 mg/kg LD50 (dermal)>2000 mg/kg LD50 (dermal)>2000 mg/kg ATEmix Tin-Lead alloy: ATEmix (Inhalation)>5,02 mg/L ATEmix (Oral)>2000 mg/kg ATEmix (dermal)>2000 mg/kg		
Skin corrosion/irritation	: Not applicable.		
Serious eye damage/irritation	: Not applicable.		
Respiratory or skin sensitisation	: May cause an allergic skin reaction	n.	
Germ cell mutagenicity	: Not applicable.		
Carcinogenicity	: Not applicable.		
Reproductive toxicity	: May damage fertility or the unborn child. May cause harm to breast-fed children.		
STOT-single exposure	: Not applicable.		
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.		
Aspiration hazards	: Not applicable.		
Symptoms	: During heating can cause slight eye, nasal and respiratory track irritation.		
Chronical effects	: Only after years of constant activity in unfavorable conditions, there may be risk of pulmonary edema.		

11.2.1. Endocrine disrupting properties: Contains no known endocrine disruptor.**11.2.2. Information on other hazards**: Not applicable.

SECTION 12: Ecological information

11.2. Information on other hazards

 12.1. Toxicity information
 : No data available.

 12.2. Persistence and degradability
 : No data available.

B	SAFETY DATA SHEET According to Regulation (EU) 2020/878, amending Annex II of Regulation (EC) No 1907/2006 (REACH) BROFIL PB WITH FLUX	
BROOLIETAS	Printing date: 05/01/2023	Version: 6
LA SOLDADURA SEGURA · THE RELIABLE SOLDER	Revision date: 05/01//2023	Page: 7 / 8
2.3. Bioaccumulative potential	: No data available.	
2.4. Mobility in soil	: No data available.	
2.5. Results PBT and vPvB assessment	: Not applicable.	
2.6. Endocrine disrupting properties	: Contains no known endocrine dis	sruptor.
2.7. Other side effects information	: Other side effects are not known.	
SECTION 13: Disposal consideration	5	
3.1. Waste treatment methods Product disposal:	 Product waste must be transported to an authorized waste disposal plant. Dispose according to local and national regulations. Do not remove by direct discharge into rivers or sewage system. Waste catalogue code: 06 04 05: wastes containing other heavy metals. 	
Packaging disposal:	: Handle contaminated containers as the product itself.	

SECTION 14: Transport information

	ADR/RID	AND/ADNR	IMDG	ΙΑΤΑ
14.1. UN number		•		•
14.2. UN proper shipping name				
14.3. Transport hazard class (es)				
14.4. Packing group	The product	is not classified acc	ording to transport ;	agreements.
14.5. Environmental hazards				
14.6. Special precautions for user				
Special dispositions	1			

14.7. Transport in bulk according to Annex : Not applicable. II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU regulations	
REACH authorizations	: The product does not contain a substance present in the candidate list of SVHC, and in Annex XIV of REACH.
REACH use restrictions	: The product contains Lead, which is a substance that presents a Restriction of Use in the entries No. 30 and 63 of the Annex XVII of REACH.
15.2. Chemical safety assessment	: A chemical safety assessment has not been carried out for the product itself, but for the ingredients: Lead (REACH Registration Number: 01-2119513221-59-XXXX) and Tin (REACH Registration Number: 01-2119486474-28-XXXX).

SECTION 16: Other information	
Changes to the previous version Abbreviations and acronyms	 Changes to sections 1.2, 2.3, 3.2, 11.2, 12.6, and 12.7. This SDS supersedes version 5. SDS: Safety data sheet PBT: Persistent, bioaccumulative and toxic vPvB: Very persistent and very bioaccumulative TLV: Thershold Limit Values TWA: Time Weighted Average ACGIH: American Conference of Industrial Hygienists DNEL: Derived non-effect level PNEC: Predicted non-effect concentration



According to Regulation (EU) 2020/878, amending Annex II of Regulation (EC) No 1907/2006 (REACH) BROFIL PB WITH FLUX

BROOLIETAS	Printing date: 05/01/2023	Version: 6
LA SOLDADURA SEGURA · THE RELIABLE SOLDER	Revision date: 05/01//2023	Page: 8 / 8
-		
	SVHC: Substances of Very High Concern	
	LD50: Median Lethal dose.	
	LC50: Median Lethal Concentration.	
	ATEmix: Acute toxicity estimated of the mixture.	
Key literature references and sources for data	: Safety data sheet of the components. https://echa.europa.eu/.	
Methods used for the purpose of mixture classification according to Regulation 1272/2008 (CLP):	: Calculation performed after the classification of substances in the mixture.	
Hazard statements (H)	: H317: May cause an allergic skin reaction.	
	H360FD: May damage fertility or the unborn child.	
	H362: May cause harm to breast-fed children.	
	H372: Causes damage to organs through prolonged or repeated exposure.	
Advice on any training appropriate for workers:	: Maintenance and production plant crew has received information and training on the safety instructions in plant and equipment.	
NOTES	: This information is based on the knowledge we have so far. This SDS refers exclusively to the product. All chemical substances in this product have been reported or are exempt from notification under notification to the EC laws. Information in this SDS is based on the available published sources and is believed to be accurate. No warranty, express or implied, is made and our company assumes no liability resulting from the use of this MSDS. The user must determine suitability of this information for his application. The specifications of this safety data sheet describes the safety requirements of our product, this is not a guarantee of characteristics. The are based on current state.	