

MATERIAL SAFETY DATA SHEET

Date of Issue: 18th March 2000 Revised at: 18th March 2015

TECHMET

a Division of SMT AfriTech (Pty)

Product Name: Lead Free SACX Alloy

Product Code: SACX 0307 or SACX⁺ 0307

Section 1. Identification and Company

Product Name **SACX 0307 or SACX⁺ 0307**
Synonym Lead free Powder, Alloy, Bar or Solid Wire
Material Applications SMT assembly in Wave Solder Machines, Any Lead Free Soldering
Supplier **Techmet a Div of SMT AfriTech Pty Ltd**
Manufacturer Techmet (Pty) Ltd
402 Murray Road, Wadeville
Germiston Tel : 011-824-1427 Fax 011-824-3150
Emergency Contact 082 824 7456 or 082 077 7961

Section 2. Composition/Information on Ingredients

Name	Cas #	OSHA PEL	% by Weight
Tin	7440-31-5	2.0mg/m ³	balance
Silver	744-22-4	0.1mg/m ³	0.3
Copper	744-50-8	1.0mg/m ³	0.7
Lead	7439-92-1		<0.1

Section 3. Hazards Identification of the Preparation

Physical State and Appearance: Solid.
Emergency Overview: **WARNING!! USED AS A HOT METAL LIQUID**
Wash hands after handling.
Routes of Entry: Inhalation
Potential Acute Effects:
Eyes: This product may be hazardous in case of eye contact (hot liquid).
Skin: This product may be hazardous in case of skin contact (hot liquid).
Inhalation: Fumes and/or dusts may be hazardous in case of inhalation. (hot liquid).
Ingestion: n/a
Chronic effects: Fumes and/or dusts produced by this product may be hazardous

Section 4. First Aid Measures

Cold state minimal risk.
Molten condition serious burns. **Call a Doctor.**
Consult an eye specialist immediately

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing. Cover the irritated skin with an emollient. Get medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen Get medical attention.

Ingestion: Product is a Hot Metal Liquid in the state of use!!



P. O. BOX 14262
1422, WADEVILLE, Germiston

TEL : 011-824-1427
FAX : 011-824-3150



SMT AfriTech®

MATERIAL SAFETY DATA SHEET

Date of Issue: 18th March 2000 Revised at: 18th March 2015

TECHMET

a Division of SMT AfriTech (Pty)

Product Name: Lead Free SACX Alloy

Product Code: SACX 0307 or SACX⁺ 0307

Section 5. Fire-Fighting Measures

Auto-Ignition Temperature: Not applicable.
Flash Points: Not applicable.
Flammable Limits: Not applicable.
Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances Not applicable.
Fire Fighting Media and Instructions All types. **NOT** WATER
Special Remarks on Fire Hazards: Take care of hot spilled metal
Special Remarks on Explosion Hazards: Not available.

Section 6. Accidental Release Measures

Spill and Leak:

Use a shovel to put the material into a spilled hot metal in a convenient metal container.

Finish cleaning with water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling

Suitable material: Steel drums. Steel straps.
Paper boxes
Handling/storage: Bundles.
Store in dry conditions and avoid contact with strong acids and bases.

Not suitable packing Aluminium and its alloys
Zinc and its alloys

Store at temperatures between 15 °C and 30 °C

Section 8. Exposure Controls/Personal Protection

Engineering Measures Use process enclosures.

Personal protective equipment at bath:

Respiratory protection: If the ventilation is suitable, it is not essential to wear respiratory equipment
Hand protection: Protective gloves made of latex Disposable protective gloves
Eye protection: Safety spectacles
Skin and body: Protective clothing
Hygiene measures : **Always wash your hands immediately after handling this product**, and
once again before leaving the workplace.
Do not eat, drink or smoke during use



P. O. BOX 14262
1422, WADEVILLE, Germiston

TEL : 011-824-1427
FAX : 011-824-3150



MATERIAL SAFETY DATA SHEET

Date of Issue: 18th March 2000 Revised at: 18th March 2015

TECHMET

a Division of SMT AfriTech (Pty)

Product Name: Lead Free SACX Alloy

Product Code: SACX 0307 or SACX⁺ 0307

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

physical state	solid
colour	Silver-grey
odour	Not available
pH value	Not applicable
boiling point	Not available
melting point	+219 - 227°C
flash point	Not applicable
auto flammability	Not applicable
lower explosion limit	Not applicable
upper explosion limit	Not applicable
vapour pressure	Not applicable
specific gravity	~ 7.38 g/cm ³

Section 10. STABILITY AND REACTIVITY

Stability and Reactivity:	The product is stable.
Conditions of Instability:	Over melting point, can emit toxic tin oxides. (Tin)
Incompatibility with Various Substances:	Slightly reactive with oxidizing agents, acids, moisture.
Hazardous Decomposition Products:	Not available.
Hazardous Polymerization:	Will not occur.
Corrosivity:	Not considered to be corrosive

Special Remarks on

Section 11. TOXICOLOGICAL INFORMATION

Toxic and Chronic Effects on Humans: Fumes and/or dusts produced by this product may be hazardous in case of ingestion, of inhalation.

This product may be hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant).

Non-corrosive for skin.

CARCINOGENIC EFFECTS: Classified NONE by NIOSH

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The product may be toxic to kidneys, lungs, liver, mucous membranes, upper respiratory tract, skin, eye, lens or cornea.

Prolonged and repeated exposure to tin oxide fumes may result in benign pneumoconiosis (stenosis). (Tin)

MOLTEN METAL can cause severe BURNS!

Fumes and dust may irritate eyes, digestive system and respiratory tract.

Section 12. ECOLOGICAL INFORMATION

There are no data available on this topic. The product itself and its products of degradation are not toxic



P. O. BOX 14262
1422, WADEVILLE, Germiston

TEL : 011-824-1427
FAX : 011-824-3150



SMT AfriTech®

MATERIAL SAFETY DATA SHEET

Date of Issue: 18th March 2000 Revised at: 18th March 2015

TECHMET

a Division of SMT AfriTech (Pty)

Product Name: Lead Free SACX Alloy

Product Code: SACX 0307 or SACX⁺ 0307

Section 13. DISPOSAL CONSIDERATIONS

Waste must be disposed of in accordance with government and local environmental control

Discharging into rivers and drains is forbidden

Do not dispose of with domestic waste

Land-fill is forbidden

Do not dump

Disposal **Entrust the thoroughly decontaminated packaging to a licensed waste-contractor**

Section 14. TRANSPORT INFORMATION

No special provisions need to be made for transportation of this product.

Section 15. REGULATORY INFORMATION

The product is labelled as follows : **Lead Free Bars SACX 0307 or SACX+ 0307**

Danger classification :	Not Harmful
Contents	Tin with silver and/or copper
R phrases	not applicable
S phrases	S13
Other	When using or working with metal, Do not eat, drink or smoke

Section 16. OTHER INFORMATION

The information of this MSDS is based on the present state of our knowledge and on current national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction.

It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this MSDS is meant as a description of the safety requirements of our product. It is not to be considered as guarantee of the products' properties.



P. O. BOX 14262
1422, WADEVILLE, Germiston

TEL : 011-824-1427
FAX : 011-824-3150

