


General declaration by REACH and Tin-Lead Eutectic Alloy Safety Data Sheet			 PIONEERING WITH PASSION	
Document Number: RA.0010.035.10 / TD01424633	Issue: A	Date: 01.11.18	Doc-Class: O-K1	Page: 1 / 3
PROPRIETARY & CONFIDENTIAL			Tesat-Spacecom GmbH & Co. KG, ©10/2016	

# General declaration by REACH and Tin-Lead Eutectic Alloy Safety Data Sheet

## 1 GENERAL DECLARATION

Please note this general declaration required by REACH.  
Delivered parts could contain > 0,1% Tin-Lead by weight.

Therefore Tesat attach this safe-use instructions for the article.

## 2 IDENTIFICATION

This safety-use instruction applies to all grades of Tin-Lead Alloy as a surface to EEE parts.

### Supplier:

Tesat Spacecom GmbH & Co. KG  
Gerberstr. 49  
71522 Backnang  
Germany

Product Use: manufacturing/ assembly of electronic devices

## 3 HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended


Repr.1A	H360FD	May damage fertility or the unborn child
STOT RE1	H372	Cause damage to organs
Aquatic Acute 1	H400	Very toxic to aquatic life
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects

### Label:

Symbols:



Signal Word: DANGER

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#### Hazard Statements:

- DANGER!
- Causes damage to kidneys, blood forming systems, central nervous system and digestive tract through prolonged or repeated exposure.
- May damage the unborn child. May cause harm to breast-fed children. Suspected of damaging fertility.
- Suspected of causing cancer.
- Harmful to aquatic life.

#### Precautionary Statements:

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Do not breathe dust
- Wear protective gloves, protective clothing, and eye protection
- Wash hands thoroughly after handling
- Do not eat, drink or smoke when using this product
- Avoid release to the environment
- If exposed or concerned or you feel unwell: Get medical advice/attention

#### Potential Health Effects:

While this product is not considered hazardous in the form in which it is sold, this Safety-use instruction contains valuable information critical to the safe handling and proper use of the product.

Inhalation or ingestion of lead-containing dust or fumes from this product may result in headache, nausea, vomiting, abdominal spasms, fatigue, sleep disturbances, weight loss, anemia and leg, arm, and joint pain. Prolonged exposure may also cause central nervous system damage, gastrointestinal disturbances, anemia, kidney dysfunction and possible reproductive effects.

Pregnant women should be protected from excessive exposure to dust in order to prevent lead crossing the placental barrier and causing infant neurological disorders.

Airborne lead dust or fume is considered a potential human carcinogen by IARC, ACGIH and NTP (see Toxicological Information).

#### Potential Environmental Effects:

The product, a tin-lead alloy, is unlikely to yield direct ecological effects, as the constituent metals (i.e., tin and lead), are generally not readily bioavailable. However, processing of the product or extended exposure in both aquatic and terrestrial environments may lead to the release of tin and lead compounds in more bioavailable, and therefore, potentially toxic, forms (see Ecological Information).

## 4 FIRST AID MEASURES

#### General:


It should be noted that simple handling and non-thermal processing of this alloy doesn't present any significant health hazard to workers.

#### Eye Contact:

Flush affected areas with water for at least fifteen minutes. Seek medical assistance if necessary.

#### Skin Contact:

Remove contaminated clothing. Wash affected area with large quantities of water for at least five minutes. Seek medical attention if necessary. Launder or dry-clean clothing before reuse.

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#### **Molten Metal:**

Flush contact area to solidify and cool but do not attempt to remove encrusted material or clothing. Cover burns and seek medical attention immediately.

#### **Inhalation:**

If signs and symptoms of toxicity are observed, remove subject from area, administer oxygen, and seek medical attention. Keep the subject warm and at rest. Perform artificial respiration if breathing has stopped.

#### **Ingestion:**

If subject is conscious, induce vomiting. If unconscious or convulsive, seek immediate medical assistance. Do not give anything by mouth to an unconscious or convulsive person.

#### **Note to Physician or Poison Control Center:**

None of the components are acutely toxic by ingestion, nor are they absorbed through the skin.

## 5 OTHER INFORMATION

The information in this Safety-user instruction is based on the following references:

- American Conference of Governmental Industrial Hygienists, 2004, Documentation of the Threshold Limit Values and Biological Exposure Indices, Seventh Edition plus updates.
- American Conference of Governmental Industrial Hygienists, 2015, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.
- American Conference of Governmental Industrial Hygienists, 2015, Guide to Occupational Exposure Values.
- Bretherick's Handbook of Reactive Chemical Hazards, 20<sup>th</sup> Anniversary Edition (P. G. Urban, Ed.), 1995.
- Commission de la santé et la sécurité du travail, Service du répertoire toxicologique, Étain, 2000 -01 et Plomb 2007-04.
- European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
- Handbook on the Toxicology of Metals, 3<sup>rd</sup> ed., Gunnar F. Nordberg, Bruce A. Fowler, Monica Nordberg and Lars Friberg, Editors, Academic Press, New York, NY (2007) Tin –Chapter 42.
- Industry Canada, SOR/2015-17, 30 January 2015 –Hazardous Products Regulations
- International Agency for Research on Cancer (IARC), Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, 1972 –present, (multi-volume work), World Health Organization, Geneva.
- Merck & Co., Inc., 2001, The Merck Index, An Encyclopedia of Chemicals, Drugs, and Biologicals, Thirteenth Edition.
- National Library of Medicine, National Toxicology Information Program, Hazardous Substance Data Bank (on-line version).
- Patty's Toxicology, Fifth Edition, 2001: E Bingham, B Cohns & C H Powell, Ed.
- Sax, N. Irving & Lewis, Richard J., Sr., 1987, Hawley's Condensed Chemical Dictionary, Eleventh Edition.
- U.S. Dept. of Health and Human Services, National Institute of Environmental Health Sciences, National Toxicology Program (NTP), 13<sup>th</sup> Report on Carcinogens, October 2014