



MATERIAL SAFETY DATA SHEET

Revision Date: 03.05.2021
Previous Version Date: 14.12.2017

Sn60Pb40 Solder Stick

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/OWNER

1.1 Product ID

Product Name : Sn60Pb40 RA26 Solder Stick
Product Type : Metal Alloy
Cas No : No
EINECS No : None

1.2 Identified Uses of the Substance/Mixture and Uses advised against

Identified use : Soldering
Unrecommended uses: Not recommended for use other than soldering.

1.3 Information of the Supplier of the Safety Data Sheet

Company Name :Kurtel Lehim Teli San. and Tic. Ltd. Sti.
Address : Eski Istanbul Izmit Yolu, Balık Mah. Organized Cad. No:2 GEBZE/KOCAELİ TURKEY
Phone : +90 262 751 28 57-58
Fax : +90 262 751 28 56
E-Mail : kurtel@kurtel.com

1.4 Emergency Telephone Numbers

Manufacturer: +90 262 751 28 57-58
Emergency First Aid : 112
National Poison Information Center : 114

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture (R.G 11.12.2013-28848)

Classified under local regulations and EU directives 1272/2008/EC [CLP].
Acute Toxicity : Category 4 (Oral) , H302
Acute Toxicity : Category 4 (Respiratory) , H332
Carcinogenicity : Category 2 , H351
Eye Irritation : Category 2 , H319
Reproductive toxicity : Category 1A , H360Df
Acute aquatic toxicity : Category 1, H400
Specific Target Organ Toxicity : Single exposure , Category 3, Respiratory System , H335
Specific Target Organ Toxicity : Repeated exposure, Category 2 , H373
Acute Aquatic Toxicity : Category 1, H400



Chronic Aquatic Toxicity : Category 1, H410

The definition of H expressions is made in section 16.

2.2 Label Elements

Hazard signs



Word of warning

Attention

Hazard Statements

H410-Very toxic to aquatic life with long lasting effects.

H400-Very toxic to aquatic life

H373-May cause damage to organs through prolonged or repeated exposure.

H360FD- May damage fertility, the unborn child.

H351-Suspected of causing cancer.

H335-May cause respiratory irritation.

H332-Harmful by inhalation.

H319-Causes serious eye irritation.

H302-Harmful if swallowed.

Precautionary statements

P201- Read special instructions before use.

P261- Avoid breathing dust/fume/gas/mist/vapours/spray.

P273- Avoid release to the environment.

Intervention

P304+P340+P312: After inhalation: Move victim to fresh air and keep in a position comfortable for breathing. If you feel unwell, call the National Poison Control Center on 114 or the doctor/physician.

P301+P351+P338: In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Keep stopping.

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

P391: Collect spillage.

Storage

P402+P404: Store in dry area. Store in a closed container.

Disposal

P501: Dispose of contents and containers according to all local, regional, national and international regulations.

Harmful Components: There are no known harmful components.

Additional Label Elements: No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	EC No	Cas No	%	Classification (T.C. 27092 67/548 EEC.)	Classification (T.C. 28848 2013-SEA)
Lead	231-100-4	7439-92-1	39,5-40,5	Acute Tok.4 (oral) Acute Tok.4 (respiratory) Cancer 2 Reproductive Fog. Full. 1 A STOT Again Mrz.2 Aquatic Acute 1 Aquatic Chronic 1	H302 H332 H351 H360FD H373 H400 H410
Tin	231-141-8	7440-31-5	59,5-60,5	Eye Irritation.2 STOT single exposure 3	H319 H335

There are no additional ingredients that are classified as hazardous to health or the environment and therefore need to be reported in this section, to the supplier's current knowledge and in the concentrations applicable.

4. FIRST AID MEASURES

4.1 General : Consult a doctor. Show this safety data sheet to your doctor.

Eye contact : If the person has contact lenses, remove them. Wash off with plenty of water for at least 15 minutes. In case of any doubt, consult your doctor.

Inhalation : Remove person to fresh air. If breathing is irregular or stopped, give artificial respiration.

Skin Contact: Wash with soap and plenty of water. Consult the doctor.

Ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water and consult your doctor.

4.2 Most important symptoms and effects, both acute and delayed

Known symptoms and effects are listed in section 2.2.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician: Administer appropriate treatment for symptoms.

Special applications: Does not require any special treatment.

5. FIRE FIGHTING MEASURES

5.1 Fire extinguishers

Suitable extinguishers: Dry chemical, carbon dioxide, alcohol resistant foam or water spray

5.2 Special hazards arising from the substance or mixture

Tin oxide and Tin

5.3 Advice for firefighters

Protective clothing should be worn and a ventilation system should be used.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use your personal protective equipment. Do not breathe smoke, gas and vapours. Use in an environment with good ventilation. Appropriate personal protective equipment is specified in section 8.

6.2 Environmental precautions

Care should be taken not to mix it with the sewer. Waste should not be thrown into the environment.

6.3 Methods and materials for containment and cleaning up

Be careful not to create dust. Store waste in suitable closed containers.

6.4 References to other sections

See section 1 for emergency information, section 8 for personal protective equipment, section 13 for waste.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Avoid contact with skin and eyes. Pay attention to the ventilation system. Eating, drinking and smoking should be strictly avoided where this material is used.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. The area where it is stored must be ventilated and the material must remain in a closed box. Keep away from oxidizing media, solvents and acids.

7.3 Specific uses

Not available.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control Parameters

"Regulation on Health and Safety Precautions in Working with Chemicals - Annex 1- Exposure Limit Values"

Substance name	EC No	Cas No	Exposure Limit Value
Lead	231-100-4	7439-92-1	TWA: 0,15 mg/cm ³ 8 hour
Tin	231-141-8	7440-31-5	TWA: 2 mg/cm ³ 8 hour

Biological exposure limits

Biological limit values and health measures

Substance name	EC No	Cas No	Value	Sample
LEad	231-100-4	7439-92-1	70 µg Pb/100 ml	blood

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ventilate the environment adequately. Provide general ventilation so that dust and smoke concentrations that may occur are below the limit level. Wash your hands before and after working.

8.2.2 Personal Protective equipment

Eye/Face Protection

Use glasses conforming to EN166 standard.

Skin Protection

Gloves conforming to EN374 standard should be used. Do not touch the outer surface of the glove while removing it.

Body Protection

Personal protective clothing should be determined according to the work and environment.

Protection of the Respiratory System

For nuisance exposure, use P95(US) or P1(EU EN 143) type respirator. For higher levels, use type OV/AG/P99(US) or ABEK P2(EU EN 143) type respirator. Use tested and approved respirators such as NIOSH or CEN.

8.3 Environmental exposure controls

Avoid mixing into the sewer. Disposal into the environment should be prevented and waste procedures should be implemented.

9. FİZİKSEL VE KİMYASAL ÖZELLİKLER

9.1 Information on basic physical and chemical properties

Physical State : Solid

Color : Silver gray

Odor : No information available.

pH : No information available.

Melting Point/Freezing Point: (solidus) 183°C – (liquidus) 190 °C

Relative Density: 8.5 g/cm³

Flammability : No information available.

Flash Point : Not applicable.

Vapor density : No information available.

Vapor pressure : No information available.

Boiling Point : No information available.

Resolution : No information available.

9.2 Other information

No information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data are available regarding the reactivity of this product or its ingredients.

10.2 Chemical Stability

Stable under recommended conditions of use and storage. (see Chapter 7)

10.3 Possibility of hazardous reactions

Under the specified storage conditions, hazardous reactions do not occur.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Do not store together with oxidizing agents, strong bases, halogens, acids and sulfur compounds.

10.6 Hazardous decomposition products

No information available.

11. TOXYLOGICAL INFORMATION**11.1 Information on toxicological effects**

The mixture is classified according to T.C.28848 Annex-1.

STOT repeated exposure

Causes damage to organs (Blood, Kidney, Central Nervous System) through prolonged or repeated exposure (Inhalation: Dust, oral).

Inhalation poisoning:

The vapors emitted in hot solder are irritating to the nose, throat and lungs. Prolonged or repeated exposure to solder fumes may cause sensitization in sensitive individuals.

Skin toxicity

This product is considered to have low dermal toxicity.

skin irritation

Vapors released during soldering may irritate the eyes.

eye irritation

Vapors released during soldering may irritate the eyes.

Reproductive toxicity

May damage fertility. May damage the unborn child. May harm breastfeeding children.

Acute oral toxicity

Hazardous Ingredients	Value Type	Value %	Application method	Exposure time	Types	Method
Tin Cas No: 7440-31-5	LD50	>2000mg/kg	Oral		Rat	OECD Guideline 423 (acute oral toxicity)

Acute dermal toxicity

Hazardous Ingredients	Value Type	Value %	Application method	Exposure time	Types	Method
Tin Cas No: 7440-31-5	LD50	>2000mg/kg	Dermal		Rat	OECD Guideline 402 (acute dermal toxicity)

Skin corrosion/irritation

Hazardous Ingredients	Result	Exposure time	Types	Method
Tin Cas No: 7440-31-5	non irritating		Rat	OECD Guideline 404 (acute dermal irritation/ corrosion)

Serious eye damage/irritation

Hazardous Ingredients	Result	Exposure time	Types	Method
Tin Cas No: 7440-31-5	non irritating		Rat	OECD Guideline 405 (acute eye irritation/ corrosion)

Germ cell mutagenicity

Hazardous Ingredients	Result	Review type/Application path	Metabolic activation/exposure time	Method
Tin Cas No: 7440-31-5	Negative	Bacterial reverse mutation assa (e.g Ames test)	with and without	OECD Guideline 471 (bacterial reverse mutation assay)
	Negative	Mammalian chromosome error test in glass tube	with and without	OECD Guideline 473 (In vitro mammalian chromosome aberration test)
	Negative	Mammalian cell gene mutation assay	with and without	OECD Guideline 476 (In vitro mammalian cell gene mutation test)

Reproductive toxicity

Hazardous Ingredients	Result /Classification	Exposure time	Types	Method
Tin Cas No: 7440-31-5	NOAEL P = > 1000mg/kg	56 days	Rat	OECD Guideline 421 (reproduction / Developmental Toxicity Screening Test)

Repeated dose toxicity

Hazardous Ingredients	Result	Exposure time/frequency of treatment	Application method	Types	Method
Tin Cas No: 7440-31-5	NOAEL P = > 1000mg/kg	28 days daily	Oral	Rat	OECD Guideline 407 (repeated dose 28-day oral toxicity in rodents)

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Ecotoxicity: Do not discharge into sewers, surface and groundwater.

Acute toxicity: On fish,



Mortality LOEC / Rainbow fish 1.19mg/l (96 h)
LC 50 / Micropterus dolomieu 2.2 mg/l (10 d)
Mortality LOEC / Salvelinus fontinalis 1.7mg/l (10 d)

Toxicity to aquatic invertebrates and daphnia
Mortality NOEC / Daphnia 0.099mg/l (24 h)
Mortality EC50 / Skeletonema costatum 73.94 mg/l (10 d)

12.2 Persistence and degradability

Persistence and biodegradability:
The product is not biodegradable.

12.3 Bioaccumulative potential / 12.4 Mobility in soil

Mobility: The product is insoluble in water and precipitates in water.
Bioaccumulation potential: No information available.

12.5 Results of PBT and vPvB assessment

Hazardous Ingredients	PBT/vPvB
Lead Cas No: 7439-92-1	It is not permanent. Bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB) criteria
Tin Cas No: 7440-31-5	It is not permanent. Bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB) criteria

12.6 Other adverse effects

No information available.

13. DISPOSAL INFORMATION

13.1 Waste treatment methods

Product Disposal:
Wherever possible, unwanted solder alloys should be recovered for metal rectification.
Otherwise, dispose of it in accordance with local and national regulations.

Disposal of Uncleaned Packages:

It should be disposed of as unused product.

Waste Code:

06 04 05-other wastes containing heavy metals
EAK waste charts are about the place of arrival, not the product. For this reason, the manufacturer cannot specify any waste keys for products used in different branches. The specified keys should be perceived as advisory for the user.

14. TRANSPORT INFORMATION

14.1 UN Number

Not dangerous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2 UN proper shipping name

Not dangerous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3 Transport hazard class(es)

Not dangerous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4 Packing Group

Not dangerous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5 Environmental Damages

Not dangerous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6 Special precautions for the user

Not dangerous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7 Transport in bulk according to annex II of MARPOL 73/78 and the IBC code

No information available.

15. REGULATORY INFORMATION**15.1 Legal Information**

It has been prepared within the framework of the "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures" dated 13 December 2014 and No. 29204 and certified by accredited expert personnel.

15.2 Other Legislation

28733/12.08.2013-Regulation on health and safety measures in working with chemical substances

27092/26.12.2008-Regulation on Inventory and Control of Chemicals

28867/30.12.2013-Regulation on prevention of major industrial accidents and reduction of their effects

28801/24.10.2013-Regulation on the Transport of Dangerous Goods by Road

28848/11.12.2013-Regulation on Classification, Labeling and Packaging of Substances and Mixtures

29284/03.03.2015-Regulation on the Transport of Dangerous Goods by Sea

16. OTHER INFORMATIONS

Information on the marking of the product is given in section 2. The long texts of all abbreviations specified with codes are as follows;

H410-Very toxic to aquatic life with long lasting effects.

H400-Very toxic to aquatic life

H373-May cause damage to organs through prolonged or repeated exposure.

H360FD- May damage fertility, the unborn child.

H351-Suspected of causing cancer.

H335-May cause respiratory irritation.

H332-Harmful by inhalation.

H319-Causes serious eye irritation.

H302-Harmful if swallowed.

Label Elements (27092 T.C.):

The product does not require marking according to the calculation process according to the last valid text of the "EU's General Rating Directive for Preparation".

Additional label information:

In case of need, please request the MGBF.

SDS Maker:

Contact Information: Efe BAYAR

kurtel@kurtel.com
Certificate No: TÜV/01.281.03
Tel: 0262 751 28 57-58
Fax: 0262 751 28 56

Additional information

This information is based on our current level of knowledge and all information relates to the condition of the product at the time of delivery. An attempt has been made to describe the product in terms of safety requirements and the information is not intended to guarantee a quality.