

Leadfree Solder Wire Tin-Copper Alloy with Resin based Flux

Print date: 10.09.2015

Product code: 950201.

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1. Identification**Product identifier**

Leadfree Solder Wire Tin-Copper Alloy with Resin based Flux

Further trade namespossible alloys: SN100C - SnCu0,7Ni; SN100C3 - SnCu3,0Ni; SN100CS - SnCu0,7NiGe Sn97Cu3;
Sn99Cu1; Sn99,3Cu0,7

enclosed fluxes: 2220; 3135; B2012; 26Q; 32Q; B211; Cobar 393

Details of the supplier of the safety data sheet**Manufacturer**

Company name: Balver Zinn Josef Jost GmbH & Co. KG
Street: Blintroper Weg 11
Place: D-58802 Balve
Telephone: +49 2375 915-0
Responsible Department: sds@balverzinn.com
Telefax: +49 2375 915-1700

Supplier

Company name: Cobar Solder Products Inc.
Street: 53 Wentworth Ave
Place: USA-NH 03053 Londonderry
Telephone: +1 603 432 7500
Responsible Department: sds@balverzinn.com
Telefax: +1 603 432 7519

Emergency phone number: US only 0800-181-7059
International +1 (703) 741-5970

2. Hazard(s) identification**Classification of the chemical**

This mixture is not classified as hazardous according to Regulation 29 CFR 1910.1200(d).

Label elements**Hazards not otherwise classified**

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

3. Composition/information on ingredients**Mixtures****Chemical characterization**

Solder wire

Hazardous components

CAS No	Components	Quantity
7440-31-5	tin	90 - 95 %
7440-50-8	copper	2 - 3 %
65997-06-0	Rosin, hydrogenated	2 - 3 %
7440-02-0	nickel	< 0,1 %

4. First-aid measures**Description of first aid measures**

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General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

No special measures are necessary.

The melted product can cause severe burns. After contact with molten product, cool skin area rapidly with cold water. Burns caused by molten material must be treated clinically.

After contact with eyes

No special measures are necessary.

After ingestion

No special measures are necessary.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Sand
Extinguishing powder
D -powder

Unsuitable extinguishing media

Extinguishing media which must not be used for safety reasons:

Water
Full water jet
Water spray jet

Specific hazards arising from the chemical

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Metal oxide smoke, toxic

Special protective equipment and precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes.
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

Environmental precautions

No special measures are necessary.

Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.
Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections

Safe handling: see section 7

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Personal protection equipment: see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaust at critical locations.
Do not breathe smoke. Do not breathe dust.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Further information on handling

General protection and hygiene measures: See section 8.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special measures are necessary.

Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances.
Infectious substances.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
7440-50-8	Copper dusts and mists, as Cu		1		TWA (8 h)	TLV
7440-02-0	Nickel elemental (inhalable fraction)		1.5		TWA (8 h)	TLV
7440-31-5	Tin metal		2		TWA (8 h)	TLV

Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work.
When using do not eat, drink, smoke, sniff. Use protective skin cream before handling the product.

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable gloves.
for coarse soldering works: heat insulating.

Skin protection

Protective clothing (heat-resistant)

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection necessary at:

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insufficient ventilation.
exceeding exposure limit values
Suitable respiratory protective equipment: Particulate Respirators, Standard: 42 CFR Part 84, Filter: R/N/P-95/99/100
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Environmental exposure controls

No special environmental measures are necessary.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: solid
Color: metallic, silver
Odor: odourless

Test method

pH-Value: not applicable

Changes in the physical state

Melting point/freezing point: not determined
Initial boiling point and boiling range: not determined
Sublimation point: not determined
Softening point: not determined
Flash point: not determined

Flammability

Solid: not determined

Explosive properties

none

Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: not determined

Auto-ignition temperature

Solid: not determined

Decomposition temperature: not determined

Oxidizing properties

none

Vapor pressure: not determined

Density: not determined

Bulk density: not determined

Water solubility: insoluble

Solubility in other solvents

insoluble

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Solvent separation test: not determined

Solvent content: not determined

Other information

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Solid content:

not determined

10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stability:

Stable

Stable under normal storage and handling conditions.

Possibility of hazardous reactions

Hazardous reactions:

Will not occur

No known hazardous reactions.

Conditions to avoid

No information available.

Incompatible materials

No information available.

Hazardous decomposition products

Can be released in case of fire: Metal oxide smoke, toxic

11. Toxicological information

Information on toxicological effects

Route(s) of Entry

Ingestion: May be harmful. Inhalation: May be harmful. Skin contact: May cause skin irritation. Eye contact: May causes eye irritation.

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Not an irritant.

Serious eye damage/eye irritation: Not an irritant.

Sensitizing effects

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: not sensitising.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Carcinogenicity (NTP): Metallic Nickel and alloys (CAS 7440-02-0) is listed in group 2.

Carcinogenicity (IARC): Metallic Nickel and alloys (CAS 7440-02-0) is listed in group 2B. Welding fumes is listed in group 2B.

Carcinogenicity (OSHA): No Substance listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

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Specific effects in experiment on an animal

No data available

12. Ecological information**Persistence and degradability**

No data available

Bioaccumulative potential

No indication of bioaccumulation potential.

Mobility in soil

No data available

Other adverse effects

No data available

13. Disposal considerations**Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

14. Transport information**US DOT 49 CFR 172.101****Proper shipping name:**

Not a hazardous material with respect to these transport regulations.

Marine transport (IMDG)**UN number:**

Not restricted

UN proper shipping name:

Not restricted

Transport hazard class(es):

Not restricted

Packing group:

Not restricted

Air transport (ICAO)**UN number:**

Not restricted

UN proper shipping name:

Not restricted

Transport hazard class(es):

Not restricted

Packing group:

Not restricted

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

Special precautions for user

Not restricted

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not restricted

15. Regulatory information**U.S. Regulations**

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National Inventory TSCA

nickel: listed
tin: listed
copper: listed
hydrogenated rosin: listed

Additional information

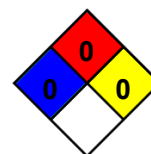
Observe technical data sheet.

16. Other information

Health: 0
Flammability: 0
Physical Hazard: 0
Personal Protection: -

NFPA Hazard Ratings

Health: 0
Flammability: 0
Reactivity: 0
Unique Hazard:



Changes

Revision date: 22.05.2015
Revision No: 1,00
Rev. 1.00; 22.05.2015, Initial release

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OSHA: Concerning the International Transport of Dangerous Goods by Rail)
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
SVHC: substance of very high concern
TRGS Technische Regeln für Gefahrstoffe

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TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)