

according to 1907/2006/EC, Article 31

Printing Date: 03.11.2017 Version number 3 Revision: 03.11.2017

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

## 1.1 Trade name: 48 Lead-free Alloy Solder Wire

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Kester Inc. 800 West Thorndale Avenue Itasca, IL 60143 Tel 00+1 + 630 616 4000

ITW Specialty Materials (Suzhou) Co., Ltd. Hengqiao Road, Wujiang Economic Development Zone Suzhou, Jiangsu Province, China 215200 Tel +86 512 82060807

Kester GmbH Ganghofer Strasse 45 D-82216 Gernlinden Germany Tel +49 (0) 8142 4785 0

Further information obtainable from: Product Compliance: EHS\_Kester@kester.com

1.4 Emergency telephone number:

CHEMTREC 24-Hour Emergency Response Telephone Number: (800) 424-9300

CHEMTREC 24-Hour Emergency Response (Outside US & Canadà) Telephone Number: (703) 527-3887

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

### Hazard pictograms



Signal word Warning

### Hazard-determining components of labelling:

Modified Rosin

#### **Hazard statements**

H317 May cause an allergic skin reaction.

### **Precautionary statements**

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

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

(Continued on page 2)



according to 1907/2006/EC, Article 31

Revision: 03.11.2017 Printing Date: 03.11.2017 Version number 3

Trade name: 48 Lead-free Alloy Solder Wire

(Continued from page 1)

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

2.3 Other hazards

Results of PBT and vPvB assessment

**PBT:** Not applicable. vPvB: Not applicable.

# **SECTION 3: Composition/information on ingredients**

**Description:** Mixture of substances listed below with nonhazardous additions.

Chemical components:			
CAS: 7440-22-4 EINECS: 231-131-3		substance with a Community workplace exposure limit	0-5%
Trade Secret	Modified Rosin	♦ Skin Sens. 1, H317	0-5%

**SVHC** 

This product does not contain any Substance of Very High Concern (SVHC) on the European Chemicals Agency (ECHA) candidate list.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**General information:** Follow general first aid procedures.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly. After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture in case of fire, the following can be released:

5.3 Advice for firefighters

Protective equipment: No special measures required.

#### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.



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Trade name: 48 Lead-free Alloy Solder Wire

(Continued from page 2)

# **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** Prevent formation of dust.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

Additional information about design of technical facilities: No further data; see item 7.

#### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 7440-22-4 SILVER (Ag)

WEL Long-term value: 0.1 mg/m<sup>3</sup>

#### 8.2 Exposure controls

# Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

#### Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

#### Protection of hands:



Protective gloves

#### Material of gloves

Nitrile rubber, NBR Natural rubber, NR

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. **Eye protection:** 



Safety Glasses with Side Shields Required

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Trade name: 48 Lead-free Alloy Solder Wire

(Continued from page 3)

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

**General Information** 

Appearance:

Form: Solid
Colour: Silver grey
Odour: Mild

pH-value: Not applicable.

Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 2,362 °C

Flash point: Not Applicable
Flammability (solid, gas): Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

Vapour pressure:Not applicable.Density:Not determined.Vapour densityNot applicable.

Solubility in / Miscibility with

water: Insoluble.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

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

#### LD/LC50 values relevant for classification:

#### **Modified Rosin**

Oral LD50 >4,000 mg/kg (Rat)
Dermal LD50 >2,500 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

(Continued on page 5)



according to 1907/2006/EC, Article 31

Printing Date: 03.11.2017 Version number 3 Revision: 03.11.2017

Trade name: 48 Lead-free Alloy Solder Wire

(Continued from page 4)

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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

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

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

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

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

## **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

Additional ecological information:

**General notes:** 

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

# **SECTION 14: Transport information**

14.1 UN-Number

IMDG, IATA Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

**Class** Void

14.4 Packing group

ADR, IMDG, IATA Void

**14.5 Environmental hazards:**Not applicable. **14.6 Special precautions for user**Not applicable.

14.7 Transport in bulk according to Annex II of Marpol

and the IBC Code Not applicable.

UN "Model Regulation": Void

## **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

All ingredients are listed on the following Government Inventories:

China: Inventory of Existing Chemical Substances in China (IECSC)

Korea: Korea Existing Chemicals List (ECL)

Europe: European Inventory of Existing Commercial Chemical Substances (EINECS)

Japan: Inventory of Existing and New Chemical Substances (ENCS)

(Continued on page 6)



according to 1907/2006/EC, Article 31

Revision: 03.11.2017 Printing Date: 03.11.2017 Version number 3

Trade name: 48 Lead-free Alloy Solder Wire

(Continued from page 5)

Philippines: Philippine Inventory of Chemicals and Chemical Substances (PICCS)

USA: TSCA (Toxic Substances Control Act) TSCA Inventory of Chemical Substances

### Labelling according to Regulation (EC) No 1272/2008

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Hazard pictograms



#### Signal word Warning

#### Hazard-determining components of labelling:

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 27

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Kester extends no warranties, makes no representations and assumes no responsibilty as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Safety Data Sheet (SDS) relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Safety Data Sheet (SDS) as a source for hazard information.

Department issuing SDS: Product Compliance / EHS Department

Contact: EHS Kester@kester.com Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of

Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Skin sensitisation - Category 1

<sup>\*</sup> Data compared to the previous version altered.