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# SAFETY DATA SHEET (SDS)

according to 1907/2006/EC, Article 31

Printing Date: 25.08.2017 Version number 5 Revision: 25.08.2017

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

1.1 Trade name: 44 Lead (Pb) 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 & Canada) 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



GHS08 health hazard

Carc. 2

H351 Suspected of causing cancer.

Repr. 1B

H360 May damage fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled.

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





GHS07 GHS08



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#### Signal word Danger

#### Hazard-determining components of labelling:

LEAD (Pb)

Rosin

## **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled. May cause an allergic skin reaction. H317 H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

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

## **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. P270

P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

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

P405 Store locked up.

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

#### Additional information:

Restricted to professional users.

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

#### Description:

Mixture: consisting of the following components.

Mixture of substances listed below with nonhazardous additions.

Chemical components:			
CAS: 7439-92-1 EINECS: 231-100-4	LEAD (Pb)	Carc. 2, H351; Repr. 1B, H360; STOT RE 2, H373 Acute Tox. 4, H302; Acute Tox. 4, H332	0-99%
Trade Secret	Rosin		1.0-3.0%

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:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Follow general first aid procedures.

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After inhalation:

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In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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:

Carbon monoxide (CO)

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.

Ensure adequate ventilation.

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.

## **SECTION 7: Handling and storage**

7.1 Precautions for safe handling Thorough dedusting.

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:

Keep container tightly sealed.

Store in dry conditions.

Exposure to sulfur or to high humidity will tarnish the solder surface.

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.

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#### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Rosin

WEL | Short-term value: 0.15 mg/m³ Long-term value: 0.05 mg/m3

#### 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. Wash hands before breaks and at the end of work.

Respiratory protection:

When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.

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

## 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: 1,740°C

Flash point:

Not Applicable

Flammability (solid, gas):

Not determined.

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Auto-ignition temperature:

Product is not selfigniting.

**Explosive properties:** 

Product does not present an explosion hazard.

Vapour pressure:

Not applicable.

Density at 20°C:

7g/cm³

Vapour density

Not applicable.

Solubility in / Miscibility with

water:

Insoluble.

Solvent content:

Organic solvents:

0.1 %

Solids content:

99.9%

## **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: Strong acids, strong oxidizers.

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

When heated, the solvents are evaporated and rosin may be thermally degraded to liberate aliphatic aldehydes, acids, and terpenes.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed or if inhaled.

LD/LC50 values relevant for classification:

CAS: 7439-92-1 LEAD (Pb)

Oral LD50 500 mg/kg (ATE) Inhalative LC50/4 h 1.5 mg/l (ATE)

Primary irritant effect:

Skin corrosion/irritation Possible local irritation by contact with flux or fumes.

Serious eye damage/irritation Smoke during soldering can cause eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May damage fertility or the unborn child.

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

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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

## **SECTION 12: Ecological information**

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.

Danger to drinking water if even small quantities leak into the ground.

The product contains heavy metals. Avoid transfer into the environment, Specific preliminary treatments are necessary.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation

Disposal must be made according to official regulations.

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

European waste catalogue

10 08 11 dross and skimmings other than those mentioned in 10 08 10

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

## **SECTION 14: Transport information**

14.1 UN-Number

IMDG, IATA

14.2 UN proper shipping name

ADR, ADN

IMDG, IATA

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

14.4 Packing group

ADR, IMDG, IATA

14.5 Environmental hazards:

Void

Void

Void

Void

Void

Not applicable.

Not regulated

Product contains environmentally hazardous substances:

cadmium (non-pyrophoric)

Marine pollutant:

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of Marpol

and the IBC Code

Not applicable.

Not applicable:

Transport/Additional information:

Not dangerous according to the above specifications.

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Void

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**UN "Model Regulation":** 

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## **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 Existing Chemicals List (ECL)

Korea:

Europe:

European Inventory of Existing Commercial Chemical Substances (EINECS)

Japan:

Inventory of Existing and New Chemical Substances (ENCS)

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

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

Hazard pictograms





GHS07 GHS08

## Signal word Danger

#### Hazard-determining components of labelling:

LEAD (Pb)

Rosin

### Hazard statements

H302+H332 Harmful if swallowed or if inhaled. H317 May cause an allergic skin reaction.

H351

Suspected of causing cancer.

H360

May damage fertility or the unborn child.

H373

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read label before use.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P264

Wash thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313 IF exposed or concerned: Get medical advice/attention.

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

Store locked up.

P405 P501

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

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 63

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 (Continued on page 8)



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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

Branch Manager (Malaysia Only) Telephone No: 04-6414633

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)

DOT: US Department of Transportation IATA: International Air Transport Association

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)
NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health Acute Tox. 4: Acute toxicity – Category 4

Skin Sens. 1: Skin sensitisation – Čategory 1

Carc. 2: Carcinogenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
Repr. 1B: Reproductive toxicity – Category 1B
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

\* Data compared to the previous version altered.