

## 1: PRODUCT AND COMPANY IDENTIFICATION

**Trade name: R500 Sn63Pb37**

**Application of the substance / the preparation:** Dispensing Paste

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

**Manufacturer/Supplier:**

Kester Inc.  
800 West Thorndale Avenue  
Itasca, IL 60143 USA  
Tel (630) 616-4000

ITW Specialty Materials (Suzhou) Co., Ltd.  
Heng Qiao Road  
Wujiang Economic Development Zone  
Suzhou, Jiangsu 215200 China  
Tel +86 512 82060808

Kester GmbH  
Ganghofer Strasse 45  
D-8216 Gernlinden Germany  
Tel +49 (0) 8142 4785

**Information department:**

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

## 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. 1      H360 May damage fertility or the unborn child.  
STOT RE 2   H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4   H302 Harmful if swallowed.  
Acute Tox. 4   H332 Harmful if inhaled.  
Eye Irrit. 2A   H319 Causes serious eye irritation.  
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 labeled according to the CLP regulation.

(Contd. on page 2)

US

Trade name: R500 Sn63Pb37

(Contd. of page 1)

**Hazard pictograms**

GHS07 GHS08

**Signal word** Danger**Hazard-determining components of labeling:**

LEAD (Pb)

Rosin

**Hazard statements**

Harmful if swallowed or if inhaled.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

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

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

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

If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Rinse mouth.

IF ON SKIN: Wash with plenty of water.

Store locked up.

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

**Hazard description:****WHMIS Symbols****Classification system:****NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 2

Reactivity = 0

(Contd. on page 3)

US

Trade name: R500 Sn63Pb37

(Contd. of page 2)

**HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = *1
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:**

3194-55-6 | 1,2,5,6,9,10- hexabromocyclododecane

vPvB: Not applicable.

**3: COMPOSITION OF MIXTURE****Description:** Mixture of the substances listed below with nonhazardous additions.

CAS No.	Description	% Range
CAS: 7440-31-5 EINECS: 231-141-8	TIN (Sn)	40-55%
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, H312; Acute Tox. 4, H332	25-40%
CAS: 61790-85-0	Ethoxylated Amines ⚠ Eye Dam. 1, H318 ⚠ Skin Irrit. 2, H315	1-<3%
CAS: 98-55-5 EINECS: 202-680-6	p-menth-1-en-8-ol Flam. Liq. 4, H227	1.0-3.0%
CAS: 68439-49-6	Proprietary Solvent ⚠ Skin Irrit. 2, H315 Eye Irrit. 2B, H320	1.0-3.0%
	Organic Acid ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	1.0-3.0%
	Rosin ⚠ Skin Sens. 1, H317	1.0-3.0%
CAS: 102-60-3 EINECS: 203-041-4	Proprietary Amine ⚠ Skin Irrit. 2, H315 Eye Irrit. 2B, H320	1.0-3.0%
CAS: 111-42-2 EINECS: 203-868-0	diethanolamine ⚠ Carc. 2, H351; STOT RE 2, H373 ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302	0.1-≤1%

**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.

**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.

(Contd. on page 4)

Trade name: R500 Sn63Pb37

**4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

(Contd. of page 3)

## 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing 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:** Wear self-contained respiratory protective device.

## 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.

## 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Thorough dedusting.

Prevent formation of dust.

**Information about protection against explosions and fires:** 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 receptacle tightly sealed.

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

## 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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

### 8.1 Control parameters

#### Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

#### 7440-31-5 TIN (Sn)

PEL Long-term value: 2 mg/m<sup>3</sup>  
metal

REL Long-term value: 2 mg/m<sup>3</sup>

TLV Long-term value: 2 mg/m<sup>3</sup>  
metal

(Contd. on page 5)

Trade name: R500 Sn63Pb37

(Contd. of page 4)

**7439-92-1 LEAD (Pb)**

PEL	Long-term value: 0.05* mg/m <sup>3</sup> *see 29 CFR 1910.1025
REL	Long-term value: 0.05* mg/m <sup>3</sup> *8-hr TWA, excl. lead arsenate; See PocketGuideApp.C
TLV	Long-term value: 0.05* mg/m <sup>3</sup> *and inorganic compounds, as Pb; BEI

**Additional information:**

PEL = Permissible Exposure Limit (OSHA)

TLV= Threshold Limit Value (ACGIH)

OSHA= Occupational Safety and Health Administration

ACGIH= American Conference of Governmental Industrial Hygienists

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

**Breathing equipment:**

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



Face Shield with Safety Glasses when refilling.

**9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Pasty
Color:	According to product specification
Odor:	Mild

pH-value: Not applicable.

**Change in condition**

Melting point/Melting range: Undetermined.

(Contd. on page 6)

US

Trade name: R500 Sn63Pb37

(Contd. of page 5)

**Boiling point/Boiling range:** 240 °C (464 °F)

**Flash point:** 92 °C (198 °F)

**Flammability (solid, gaseous):** Not determined.

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Vapor pressure:** Not applicable.

**Density:** Not determined.

**Vapor density:** Not applicable.

**Solubility in / Miscibility with Water:** Insoluble.

**Solvent content:**

**Organic solvents:** 1.1 %  
0.0 g/l / 0.00 lb/gl

**Solids content:** 94.9 %

## 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:** No dangerous decomposition products known.

## 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity:**

Harmful if swallowed or if inhaled.

**Primary irritant effect:**

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

**on the eye:**

Causes serious eye irritation.

**Sensitization:**

May cause an allergic skin reaction.

**Additional toxicological information:**

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

7439-92-1	LEAD (Pb)	2B
102-71-6	2,2',2"-nitrilotriethanol	3
111-42-2	diethanolamine	2B

**NTP (National Toxicology Program)**

7439-92-1	LEAD (Pb)	R
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(Contd. on page 7)

Trade name: R500 Sn63Pb37

(Contd. of page 6)

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**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.

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

**12.5 Results of PBT and vPvB assessment**

**PBT:**

3194-55-6 | 1,2,5,6,9,10- hexabromocyclododecane

**vPvB:** Not applicable.

**13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Recommendation:**

Disposal must be made according to official regulations.

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

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**14: TRANSPORT INFORMATION**

**14.1 UN-Number**

DOT, ADR, ADN, IMDG, IATA Not applicable

**14.2 UN proper shipping name**

DOT, ADR, ADN, IMDG, IATA Not applicable

**14.3 Transport hazard class(es)**

DOT, ADR, ADN, IMDG, IATA

Class Not applicable

**14.4 Packing group**

DOT, IMDG, IATA Not applicable

**Marine pollutant:**

No Not applicable.

**14.6 Special precautions for user**

**14.7 Transport in bulk according to Annex II of**

MARPOL73/78 and the IBC Code Not applicable.

UN "Model Regulation": Not applicable

**15: REGULATORY INFORMATION**

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

**USA** The following information relates to product regulation specific to the USA.

(Contd. on page 8)

Trade name: R500 Sn63Pb37

(Contd. of page 7)

**SARA (Superfund Amendments and Reauthorization Act)****Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

**Section 313 (Specific toxic chemical listings):**

7439-92-1 | LEAD (Pb)

111-42-2 | diethanolamine

**TSCA (Toxic Substances Control Act):** Kester certifies that all components listed below for the subject finished product are on the TSCA Inventory of Chemical Substances and are not subject to any chemical specific regulation under TSCA Section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

All ingredients are listed or exempt from listing.

**California Proposition 65****Chemicals known to cause cancer:**

LEAD (Pb)

diethanolamine

**Chemicals known to cause reproductive toxicity:**

LEAD (Pb)

**Carcinogenic categories****EPA (Environmental Protection Agency)**

7439-92-1 | LEAD (Pb)

B2

68439-49-6 | Proprietary Solvent

Non-hazardous

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**CANADA:**

Not classified.

Workplace Hazardous Materials Identification (WHMIS):

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR) and the Safety Data Sheet (SDS) contains all of the information required by the CPR.

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

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

**Hazard pictograms**

GHS07 GHS08

**Signal word** Danger**Hazard-determining components of labeling:**

LEAD (Pb)

Rosin

**Hazard statements**

Harmful if swallowed or if inhaled.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

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

Wear protective gloves.

(Contd. on page 9)



**Trade name: R500 Sn63Pb37**

(Contd. of page 8)

Wear eye protection / face protection.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Specific treatment (see on this label).  
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
Wash contaminated clothing before reuse.  
IF exposed or concerned: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
Rinse mouth.  
IF ON SKIN: Wash with plenty of water.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.  
**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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 responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Material Safety Data Sheet 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 Material Safety Data Sheet as a source for hazard information.

**Department issuing Safety Data Sheet (SDS):** Product Compliance / EHS Department

**Contact:** EHS\_Kester@kester.com

**Date of preparation / last revision** 04/12/2016 / 4

### 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  
DOT: US Department of Transportation  
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)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Flam. Liq. 4: Flammable liquids, Hazard Category 4  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Carc. 2: Carcinogenicity, Hazard Category 2  
Repr. 1: Reproductive toxicity, Hazard Category 1  
Repr. 1B: Reproductive toxicity, Hazard Category 1B

(Contd. on page 10)



**SAFETY DATA SHEET (SDS)**  
According to 1907/2006/EC, Article 31

Version number 5

Reviewed on 04/12/2016

**Trade name: R500 Sn63Pb37**

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
**\* Data compared to the previous version altered.**

(Contd. of page 9)

us