



**Safety Data Sheet
according to WHS Regulations**

Printing date 01.02.2021

Version number 4

Revision: 01.02.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- **Product identifier**
 - **Trade name: Heravest L**
 - **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
 - **Application of the substance / the mixture** Auxiliary for manufacture of dental prothesis
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Kulzer Australia Pty Ltd
Unit 20, 53 Lorraine Street
Peakhurst, NSW 2210
Australia
Tel: +61 (0) 2 9153 0311
 - **Informing department:** see above
 - **Emergency telephone number:**
Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766

2 Hazard(s) Identification

- **Classification of the substance or mixture**
Eye Dam. 1 H318 Causes serious eye damage.
- **Label elements**
 - **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
 - **Hazard pictograms**

GHS05
 - **Signal word** Danger
 - **Hazard-determining components of labelling:**
aluminium sulphate
 - **Hazard statements**
Causes serious eye damage.
 - **Precautionary statements**
Wear eye protection / face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
- **Other hazards -**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
 - **Description:** -

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· Dangerous components:

	iron oxide Goethit FeO(OH)		10-25%
CAS: 7727-43-7 EINECS: 231-784-4	barium sulphate, natural		10-25%
CAS: 1309-48-4 EINECS: 215-171-9	magnesium oxide		10-25%
CAS: 112926-00-8 EINECS: 231-545-4	amorphous silica		10-25%
CAS: 13463-67-7 EINECS: 236-675-5	Titanium dioxide		10-25%
CAS: 7778-18-9 EINECS: 231-900-3	calcium sulphate, natural		10-25%
CAS: 10043-01-3 EINECS: 233-135-0	aluminium sulphate	Eye Dam. 1, H318	0-5%

· Additional information For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· Description of first aid measures

- **General information** No special measures required.
- **After skin contact** The product is not skin irritating.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.
- **Information for doctor**
 - **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
 - **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

· Extinguishing media

· Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· Special hazards arising from the substance or mixture No further relevant information available.

· Advice for firefighters

- **Protective equipment:** No special measures required.

· Additional information -

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures Not required.

· Environmental precautions: No special measures required.

· Methods and material for containment and cleaning up: Collect mechanically.

· Reference to other sections

No dangerous materials are released.

See Section 8 for information on personal protection equipment.

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7 Handling and Storage

- **Handling**
 - **Precautions for safe handling** No special measures required.
 - **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and containers:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

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

· **Components with critical values that require monitoring at the workplace:**

iron oxide Goethit FeO(OH)

NES (Australia)	5 mg/m ³
PEL (USA)	10 mg/m ³ Fume (Fe ₂ O ₃)
REL (USA)	5 mg/m ³ as Fe; Iron dust & fume (Fe ₂ O ₃)
TLV (USA)	5 mg/m ³ as Fe (Iron oxide dust & fume (Fe ₂ O ₃))

7727-43-7 barium sulphate, natural

NES (Australia)	10 mg/m ³ H
PEL (USA)	15*; 5** mg/m ³ *Total dust **Respirable fraction
REL (USA)	10*; 5** mg/m ³ *Total dust **Respirable fraction
TLV (USA)	10 mg/m ³ (e)

1309-48-4 magnesium oxide

NES (Australia)	10 mg/m ³
PEL (USA)	15* mg/m ³ *Total particulate
TLV (USA)	10 l mg/m ³

112926-00-8 amorphous silica

NES (Australia)	10 mg/m ³
PEL (USA)	Short-term value: 80 mg/m ³ as % SiO ₂
REL (USA)	6 mg/m ³

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TLV (USA)	10 mg/m ³ (e)
13463-67-7 Titanium dioxide	
NES (Australia)	10 mg/m ³
PEL (USA)	15* mg/m ³ *Total dust
REL (USA)	Lowest feasible conc.; (LOQ 0.2 mg/m ³)
TLV (USA)	10 mg/m ³
7778-18-9 calcium sulphate, natural	
NES (Australia)	10 mg/m ³
PEL (USA)	15*; 5** mg/m ³ *Total dust **Respirable fraction
REL (USA)	10*; 5** mg/m ³ *Total dust **Respirable fraction
TLV (USA)	10 mg/m ³ (e)
10043-01-3 aluminium sulphate	
REL (USA)	2 mg/m ³ as Al
TLV (USA)	2 mg/m ³ as Al

· DNELs

13463-67-7 Titanium dioxide

Inhalative	worker industr., l.te., local	10 mg/m ³ (human)
	worker profess., l.te., local	10 mg/m ³ (human)

· PNECs

13463-67-7 Titanium dioxide

freshwater	0.127 mg/l (nd)
marine water	1 mg/l (nd)
sedim., dw, fre.wat.	1000 mg/Kg (nd)
sedim., dw, mar.wat.	100 mg/Kg (nd)
soil,dw	100 mg/Kg (nd)

· Additional information: The lists that were valid during the compilation were used as basis.

· Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Wash hands during breaks and at the end of the work.

· Breathing equipment: Not required.

· Protection of hands:

Check protective gloves prior to each use for their proper condition.
recommended

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **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.
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Butyl rubber, BR
Nitrile rubber, NBR
- **Eye protection:** not absolutely necessary
- **Body protection:** Light weight protective clothing

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- **Form:** Powder
- **Colour:** Brown
- **Smell:** Odourless
- **Odour threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

- **Melting point/freezing point:** Not determined
- **Initial boiling point and boiling range:** Not determined

· **Flash point:** Not applicable

· **Inflammability (solid, gaseous)** Not determined.

· **Ignition temperature:**

- **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive.

· **Critical values for explosion:**

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Steam pressure:** Not applicable.

· **Density at 20 °C** 3.070 g/cm³

- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

- **Water:** Insoluble

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

- **dynamic:** Not applicable.
- **kinematic:** Not applicable.

· **Solvent content:**

- **Solids content:** 100.0 %

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· **Other information** No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
 - **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** None

11 Toxicological Information

- **Information on toxicological effects**
 - **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**

iron oxide Goethit FeO(OH)

Oral	LD50	>5000 mg/kg (rat)
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7727-43-7 barium sulphate, natural

Oral	LD50	> 15000 mg/kg (rat)
Sensitisation	Sensib.	nicht sensibil. (nd)

13463-67-7 Titanium dioxide

Oral	LD50	> 5000 mg/kg (rat) (OECD 425)
Dermal	LD50	> 5000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 6.8 mg/l (rat)

- **Primary irritant effect:**
 - **Skin corrosion/irritation** No irritant effect.
 - **Serious eye damage/irritation** No irritant effect.
 - **Respiratory or skin sensitisation** No sensitizing effect known.
- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological Information

- **Toxicity**

· **Aquatic toxicity:**

13463-67-7 Titanium dioxide

EC50/72h (static)	16 mg/l (algae) (EPA-600-9/78-018)
EC50/48h (static)	> 100 mg/l (daphnia) (OECD 202)
LC50/96h (static)	> 100 mg/l (fish) (OECD 203)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
 - **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
 - **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation** Smaller quantities can be disposed with household garbage.
- **Uncleaned packagings:**
 - **Recommendation:** Packaging can be reused or recycled after cleaning.

14 Transport information

· UN-Number · ADG, ADN, IMDG, IATA	Void
· UN proper shipping name · ADG, ADN, IMDG, IATA	Void
· Transport hazard class(es) · ADG, ADN, IMDG, IATA · Class	Void
· Packing group · ADG, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	-
· UN "Model Regulation":	Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).

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· Hazard pictograms

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GHS05

· Signal word *Danger*

· Hazard-determining components of labelling:

aluminium sulphate

· Hazard statements

Causes serious eye damage.

· Precautionary statements

Wear eye protection / face protection.

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

Immediately call a POISON CENTER/doctor.

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

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H318 Causes serious eye damage.

· 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

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

· * Data compared to the previous version altered.