



**Safety Data Sheet  
according to WHS Regulations**

Printing date 01.02.2021

Version number 3

Revision: 01.02.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

## 1 Identification

· **Product identifier**

· **Trade name:** **Hera AB 99**

· **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

· **Application of the substance / the mixture** Cleaning material/ Detergent

· **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**

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

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:**

hydrogen bromide

hydrogen chloride

· **Hazard statements**

Causes severe skin burns and eye damage.

· **Precautionary statements**

Do not breathe dusts or mists.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

Specific treatment (see on this label).

Store locked up.

· **Other hazards -**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

(Contd. on page 2)

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· **vPvB:** Not applicable.

(Contd. of page 1)

### 3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:** -

· **Dangerous components:**

CAS: 7647-01-0 EINECS: 231-595-7	hydrogen chloride Skin Corr. 1B, H314; STOT SE 3, H335	10-25%
CAS: 10035-10-6 EINECS: 233-113-0	hydrogen bromide Press. Gas C, H280; Skin Corr. 1A, H314; Acute Tox. 4, H332; STOT SE 3, H335	10-25%

· **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** Instantly remove any clothing soiled by the product.

· **After inhalation** In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact**

Rinse opened eye for several minutes under running water. Then consult doctor.

· **After swallowing**

Do not induce vomiting; instantly call for medical help.

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Danger** Danger of gastric perforation.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire Fighting Measures

· **Extinguishing media**

· **Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:** Wear self-contained breathing apparatus.

· **Additional information** -

### 6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Prevent material from reaching sewage system, holes and cellars.

Dilute with much water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

(Contd. on page 3)



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(Contd. of page 2)

- Use neutralising agent.
- Dispose of contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- **Reference to other sections**  
See Section 8 for information on personal protection equipment.
- 

## 7 Handling and Storage

- **Handling**
  - **Precautions for safe handling** Keep containers tightly sealed.
  - **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:**
      - Store away from foodstuffs.
      - Store away from flammable substances.
    - **Further information about storage conditions:** Keep receptacle tightly sealed.
  - **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:**

### 7647-01-0 hydrogen chloride

NES (Australia)	7.5 mg/m <sup>3</sup> , 5 ppm
PEL (USA)	Short-term value: C 7 mg/m <sup>3</sup> , C 5 ppm
REL (USA)	Short-term value: C 7 mg/m <sup>3</sup> , C 5 ppm
TLV (USA)	Short-term value: C 2.98 mg/m <sup>3</sup> , C 2 ppm

### 10035-10-6 hydrogen bromide

NES (Australia)	9.9 mg/m <sup>3</sup> , 3 ppm
PEL (USA)	10 mg/m <sup>3</sup> , 3 ppm
REL (USA)	Short-term value: C 10 mg/m <sup>3</sup> , C 3 ppm
TLV (USA)	Short-term value: C 6.8 mg/m <sup>3</sup> , C 2 ppm

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

- **Exposure controls**
  - **Personal protective equipment**
    - **General protective and hygienic measures**
      - Keep away from foodstuffs, beverages and food.
      - Instantly remove any soiled and impregnated garments.
      - Wash hands during breaks and at the end of the work.
      - Avoid contact with the eyes and skin.
    - **Breathing equipment:** Not required.
    - **Protection of hands:**
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)



**Safety Data Sheet  
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Revision: 01.02.2021

**Trade name: Hera AB 99**

(Contd. of page 3)

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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.
- **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:**  
PVC or PE gloves
- **Eye protection:**  
Protective goggles are recommended.  
Tightly sealed safety glasses.
- **Body protection:** Light weight protective clothing

## 9 Physical and Chemical Properties

### · Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

- **Form:** Fluid
- **Colour:** Clear
- **Smell:** Acrid

· **pH-value at 20 °C:** 1

#### · Change in condition

- **Melting point/freezing point:** Not determined
- **Initial boiling point and boiling range:** 85 °C

· **Flash point:** Not applicable

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

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

· **Steam pressure at 20 °C:** 22500 hPa

· **Density at 20 °C** 1.090 g/cm<sup>3</sup>

#### · Solubility in / Miscibility with

· **Water:** Fully miscible

#### · Solvent content:

· **Water:** 85.7 %

· **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** Reacts with base metals forming hydrogen

· **Conditions to avoid** No further relevant information available.

(Contd. on page 5)



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Revision: 01.02.2021

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- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
  - Hydrogen chloride (HCl)
  - Hydrogen bromide
  - Chlorine

(Contd. of page 4)

### 11 Toxicological Information

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

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

**10035-10-6 hydrogen bromide**

Inhalative LC50/4 h 2858 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation** Strong caustic effect on skin and mucous membranes.
- **Serious eye damage/irritation** Strong caustic effect.
- **Respiratory or skin sensitisation** No sensitizing effect known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological Information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
- **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.
- **Additional ecological information:**
  - **General notes:**
    - Must not reach sewage water or drainage ditch undiluted or unneutralised.
    - 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**
    - 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.

(Contd. on page 6)



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· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

(Contd. of page 5)

**14 Transport information**

· <b>UN-Number</b> · <b>ADG, IMDG, IATA</b>	3264
· <b>UN proper shipping name</b> · <b>ADG</b>  · <b>IMDG, IATA</b>	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN BROMIDE, HYDROCHLORIC ACID) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN BROMIDE, HYDROCHLORIC ACID)
· <b>Transport hazard class(es)</b> · <b>ADG, IMDG, IATA</b>	
	
· <b>Class</b> · <b>Label</b>	8 Corrosive substances. 8
· <b>Packing group</b> · <b>ADG, IMDG, IATA</b>	II
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b> · <b>Kemler Number:</b> · <b>EMS Number:</b>	Warning: Corrosive substances. 80 F-A,S-B
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	-
· <b>UN "Model Regulation":</b>	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN BROMIDE, HYDROCHLORIC ACID), 8, II

**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).
- **Hazard pictograms**



GHS05

(Contd. on page 7)



**Safety Data Sheet  
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(Contd. of page 6)

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

*hydrogen bromide*

*hydrogen chloride*

· **Hazard statements**

*Causes severe skin burns and eye damage.*

· **Precautionary statements**

*Do not breathe dusts or mists.*

*IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*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.*

*Specific treatment (see on this label).*

*Store locked up.*

· **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**

*H280 Contains gas under pressure; may explode if heated.*

*H314 Causes severe skin burns and eye damage.*

*H332 Harmful if inhaled.*

*H335 May cause respiratory irritation.*

· **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)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Press. Gas C: Gases under pressure – Compressed gas*

*Acute Tox. 4: Acute toxicity – Category 4*

*Skin Corr. 1A: Skin corrosion/irritation – Category 1A*

*Skin Corr. 1B: Skin corrosion/irritation – Category 1B*

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

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

· **\* Data compared to the previous version altered.**