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# MATERIAL SAFETY DATA SHEET

(According to (EC) Directive 1907/2006/EC)

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## 1 – PRODUCT AND COMPANY INFORMATION

### About the product -

Description: **Aldo-keto reductase**  
Cat. No.: PRO-AKR(001)  
Form: Lyophilised cell-free extract (CFE) powder or cake  
Intended use: **Laboratory research only (not for drug, household or other uses)**

### About the company -

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## 2 – HAZARD IDENTIFICATION

### Consideration of human and environmental hazards -

In addition to the usual general precautions that should be observed when handling chemical compounds and recombinant proteins, there is at the date indicated above no indication of any particular hazardous properties.

**NOTE:** irritating to eyes, respiratory system and skin. Slightly hazardous to water and ground.

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## 3 – COMPOSITION / INFORMATION ON INGREDIENTS

### Recombinant Aldo-keto reductase as an *E. coli* cell-free extract (CFE)

**NOTE:** labelling not required and contains no hazardous substances in concentrations to be declared.

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#### 4 – FIRST AID MEASURES

Skin contact: Immediately wash with copious amounts of water.  
Eye contact: Immediately wash eyes with copious amount of water. Continue for > 15 minutes and seek medical advice.  
Ingestion: Wash mouth out with water if person is conscious and seek medical advice.

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#### 5 – FIRE FIGHTING MEASURES

Extinguishing media: No restriction.  
Decomposition: Dangerous decomposition is not anticipated.

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#### 6 – ACCIDENTAL RELEASE MEASURES

If spilt: Carefully sweep up avoiding dust formation.  
Absorbent material: N/A.  
Special measures: It is not necessary to put special measures in place for this product.

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#### 7 – HANDLING AND STORAGE

Safe handling: Avoid inhalation and minimise repeated or prolonged exposure. Avoid contact with eyes, skin, and clothing.  
Storage: Refrigerate at +1°C to +8°C (short-term; < 6 months) or -20°C (long-term; > 6 months). **NOTE:** this product is shipped at ambient temperature. Ensure tight seal.  
Do not store together with: No restriction.

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#### 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

General hygiene measures: Wash hands thoroughly after use and before breaks.  
Respiratory protection: Appropriate filter (P1) to be used during handling.  
Eye protection: Chemical safety goggles.  
Hand protection: Protective gloves (do not re-use).

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#### 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form: Solid.  
Colour: Pale orange yellow.  
Fire promoting: No oxidising properties.  
pH: ~ 8 (after dissolution).  
Solubility: Soluble.

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## 10 – STABILITY AND REACTIVITY

Hazardous reactions: None under normal use.  
Hazardous decomposition products: No data.  
Hazardous polymerisation: Will not occur.

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## 11 – TOXICOLOGICAL INFORMATION

Signs and symptoms of exposure: To our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. However, intoxication has so far not become known.

### Route of exposure

Skin contact: Skin irritation may be caused.  
Skin absorption: May be harmful.  
Eye contact: Eye irritation may be caused.  
Inhalation: May be harmful to mucous membranes and upper respiratory system.  
Ingestion: May be harmful.

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## 12 – ECOLOGICAL INFORMATION

Water hazard class: 1 (German regulations [VwVwS]).

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## 13 – DISPOSAL CONSIDERATIONS

Contents: After dilution this product can be disposed of in general waste water according to local regulations.  
Packaging: Non-contaminated outer paper packaging should be re-used or recycled as for any general paper waste. Packaging (glass vial, rubber bung and cap, or plastic container materials) used to contain this product should be disposed off in accordance with local regulations, i.e. the same as for any general chemical compound.

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## 14 – TRANSPORT INFORMATION

Non-hazardous for road (RID/ADR), sea (IMDG) and air (IATA/ICAO) transport.

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## 15 – REGULATORY INFORMATION

### **Classification and labelling according to EU directives –**

**NB:** product not labelled according to EEC Directive 67/548 and 99/45

Caution: Substance not yet fully tested (EU).  
Country specific information: WGK: 1 (Germany; self classification).

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## 16 – OTHER INFORMATION

Disclaimer: **This product is intended for laboratory research use only (not for drug, household or any other use)**

The above information has been presented to the best of our knowledge and is believed to be correct. However, it may not be accurate or inclusive, should only be used as a guide, and is provided without warranty of any kind. Among others, the recipient of this product is responsible for considering appropriate safety precautions and ensuring that existing laws and guidelines are fully observed. Prozomix Limited will not be held liable for damages resulting from handling, contact or use of this product.

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