

Safety Data Sheet

DECARBOXYLASE 2000

Revision Date: 13/08/2019 Status: Approved

Hazard Statement: Danger – May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Classified as Hazardous according to criteria of Safe Work Australia.



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Decarboxylase 2000

Chemical Name Alpha-acetolactate decarboxylase

Product Code 254227/ 262176

Recommended Use Brewing

Supplier Name Connell Bros Company Australasia Pty Ltd ABN: 53 079 159 327

Address 26 Research Drive

Croydon South Vic Australia 3136

Emergency Telephone

Numbers

+61 3 9761 7999

+61 417 537 063 (24 hours)

Other Names Name Product Code

-

Other Information

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS

Hazard Statements: Hazard Category 1, Sensitisation - Respiratory

Danger - H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Prevention Statements: P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.

P264 Wash hands thoroughly after handling

P284 In case of inadequate ventilation wear respiratory protection. P280 Wear protective gloves/protective clothing/eye protection/face

protection.

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

ingesting material

P272 Contaminated work clothing should not be allowed out of the

workplace.

Human Health Hazards: Inhalation of enzyme aerosols or dust may induce sensitisation and

may cause allergic type reactions in sensitised individuals.

Prolonged skin contact may cause irritation.

Direct contact with eyes may cause irritation and may be harmful if

swallowed.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredients Name	IUB No.	CAS No.	Hazard Classification	Proportion of Ingredients	
Alpha-acetolactate decarboxylase	4.1.1.5	9025-02-9	1 Respiratory Sensitivity	Proprietary	
Other components deemed not to be hazardous by Safe Work Australia					

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4. FIRST AID MEASURES

Response Statement

Inhalation:

IF INHALED: May cause allergic respiratory reaction. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms contact a

P304+P340. P342+P311

doctor/physician.

Response Statement

Inaestion:

Response Statement

Skin:

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth with water.

Contact a doctor/physician if you feel unwell.

Response Statement

Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First Aid Facilities: Advice to Doctor:

Access to potable water. Wash bottles or eye wash station or showers.

Treat symptomatically

Treat asthma in the normal way and remove patient form further exposure to enzyme dust until symptoms are controlled. Advise workplace of the need to control dust exposure. Patient may require high level of respiratory protection if a trial return to same work is attempted. Treat allergic contact dermatitis in the normal way and remove patient

from further exposure until control is achieved. Advise workplace of need to control worker exposure. Advise worker on need for high level of skin

care if trial of return to same work is attempted.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Special hazards arising from the substance

or mixture:

Advice for firefighters:

Water, foam, halones

May cause sensitisation by inhalation of dust or

aerosols.

As in any fire, wear self-contained breathing

apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency equipment: **Environmental**

precautions:

Methods and materials for containment and cleaning up:

Reference to other

sections:

Use only with adequate protective equipment and emergency procedures. Avoid breathing dust or spray mist. Avoid formation of aerosols and dust. For personal protection see Section 8.

Contain spill. Keep out of waterways.

Use appropriate personal protection (see Section 8 of SDS). Provide for sufficient ventilation. Avoid contact with product. Contain and remove spilled product by mechanical means or with a vacuum cleaner equipped with a high efficiency filter. Avoid generation of aerosols with high pressure sprays. Wash with plenty of water.

Refer to Section 8 of SDS.

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7. HANDLING AND STORAGE

Precautions for safe handling: Use only with adequate protective equipment and emergency

procedures. Avoid breathing dust or spray mist. Avoid formation of aerosols and dust. Ventilate areas. Use appropriate personal protection (see Section 8 of SDS). Handle in accordance with good industrial hygiene and safely

practice

Conditions for safe storage, including any incompatibilities

Specific end use(s):

Keep containers tightly closed in a dry cool and well ventilated

pace. Protect from light. Store in original container.

See Section 1 of SDS for more information.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameter Exposure Limits (according to Safe Work Australia)

Ingredient Name	STEL (mg/m ³)	STEL (ppm)	TWA (mg/m³)	TWA (ppm)
Alpha-acetolactate	N/D	N/D	N/D	N/D
decarboxylase				

Exposure Controls

Hygeine measures: Handle in accordance with good industrial hygiene and safety

practice.

Engineering measures: Good local ventilation.

Personal protective equipment - Wear suitable respiratory protective devices (for use against

Respiratory Protection dusts & mists) if potential for inhalation occurs.

P3 filters are recommended

Personal protective equipment -

Eye and Face Protection

Personal protective equipment -

Skin, Hand and Body Protection

Wear protective gloves and clothing.

Safety glasses with side shields, goggles or face shield.

Environmental Exposure

Controls:

Avoid release to the environment

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light brown liquid

Odour: Typical fermentation odour

Odour Threshold: Not applicable

pH: No data available

Melting Point/Freezing Point: Not applicable

Boiling Point: 100 °C

Flash Point: Not applicable

Evaporation Rate Not applicable

Flammability Not Flammable

Explosive Limits: No data available

Vapour Pressure: 13mm @ 20 °C

Vapour Density: Not applicable

Relative Density/Specific

Gravity: (H₂O=1)

Not applicable

Solubility in Water: Completely miscible

Partition coefficient Not applicable

Auto-ignition Temperature: Not applicable

Decomposition Temperature: No data available

Viscosity No data available

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended transport and storage conditions

Chemical Stability: Stable under normal conditions of use and storage

Possibility of Hazardous

Reactions: Conditions to Avoid:

None under normal processing

Avoid dust formation or generation of aerosols

Incompatible Materials: None know

Hazardous Decomposition

Products:

None know

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity -:

OralNot expected to be toxic by ingestion.DermalThere is no data available for this product.InhalationThere is no data available for this product.

Irritation -:

SkinMay cause slight irritation.EyeMay cause slight irritation.RespiratoryMay cause slight irritation.

Other effects

Systemic toxicity: There is no data available for this product.

Sensitization: Inhalation of enzyme mist/dust may cause allergic respiratory

reactions, including asthma, in susceptible individuals on

repeated exposure.

Mutagenic effects: There is no data available for this product. Carcinogenicity: There is no data available for this product.

Reproductive effects: This product does not contain any known or suspected

reproductive hazards.

Developmental toxicity:Not expected to produce reproductive or developmental

toxicity.

12. ECOLOGICAL INFORMATION

Toxicity: Contains no substances known to be hazardous to the

environment or that are not degradable in waste water treatment

plants.

Persistence and degradability: Enzymes are considered readily biodegradable.

Bioaccumulative potential: Bioaccumulation is unlikely.

Mobility in soil:SolubleOther adverse effects:None known

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Liquid spills should be flushed with water to approved sewer (avoid high

pressure rinsing). Vacuum or moisten any dried spills with water and collect into closed impermeable disposal containers. Do not use cleaning methods

that generate dust or aerosol.

P501 Dispose of closed containers of absorbed material into landfill in

accordance with national or local regulations.

14. TRANSPORT INFORMATION

UN-Number Not regulated. Not regulated as per IATA

UN proper shipping name Not regulated

Transport hazard class(es) Not regulated. Not classified as Dangerous or Hazardous for

transport, including air.

Packing group Not regulated. Store in closed container to prevent aerosol

and dust formation.

Environmental hazards Not regulated

Special precautions for users Not regulated. Normal Good Manufacturing Practice for

Not regulated

handling and storage.

Transport in bulk according to Annex II of MARPOL 73/78 and

Annex II of MARPOL 73/ the IBC code

Dangerous goodsNot dangerous goods in the meaning of ADG Code
Additional Information
Harmonized Tariff Code: 3507.90.7000 (for enzymes)

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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. OTHER INFORMATION

Abbreviations used:	TWA Time Weighted Average - airborne concentration over an eight hour working day, for a five day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, not cause undue discomfort to, nearly all workers. STEL Short Term Exposure Limit - average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health nor cause undue discomfort to nearly all workers. ADG Australian Dangerous Goods.		
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Person/Point:	hours).		
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By:			
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	02/13-08-19		

References:

Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals, Safe Work Australia, December 2011

http://www.safeworkaustralia.gov.au/sites/swa/about/publications/pages/safety-data-sheets-hazardous-chemicals-cop

Globally Harmonized System of Classification and Labelling of Chemicals (GHS), United Nations. http://www.unece.org/trans/danger/publi/ghs/ghs_welcome_e.html

Hazardous Substance Information System (HSIS) Safe Work Australia

http://www.hsis.safeworkaustralia.gov.au/ExposureStandards/Search?CasNo=&Name=subtilisin&TwaPpm=&TwaMgm3=&StelPpm=&StelMgm3=&Category=&Notices=&Reference=&Notes=&fromDate=&toDate=&Sort=Cas No&underReview=B&results=20&isAdvancedSearch=false

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END OF SAFETY DATA SHEET

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