

1. IDENTIFICATION

Product Name Aspartame
Other Names No Data Available

Uses Artificial sweetener; Sugar substitute; Foods and beverages.

Chemical FamilyNo Data AvailableChemical FormulaC14H18N2O5

Chemical Name L-Phenylalanine, N-L-.alpha.-aspartyl-, 1-methyl ester

Product Description No Data Available

Contact Details of the Supplier of this Safety Data Sheet

 Organisation
 Location
 Telephone

 Redox Ltd
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Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation Location Telephone Poisons Information Centre Westmead NSW 1800-251525 131126 Chemcall Australia 1800-127406 +64-4-9179888 +64-4-9179888 Chemcall Malaysia Chemcall New Zealand 0800-243622 +64-4-9179888 National Poisons Centre New Zealand 0800-764766

CHEMTREC USA & Canada 1-800-424-9300 CN723420

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2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled



Globally Harmonised System

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Signal Word None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification NOT hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Aspartame	C14H18O5N2	22839-47-0	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention if you feel

unwell. Do not induce vomiting unless directed to do so by medical personnel.

IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting Eye

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation

occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms

persist, get medical advice/attention.

Advice to Doctor Treat symptomatically.

*Most important symptoms and effects, both acute and delayed: None known.

Medical Conditions Aggravated by This product contains phenylalanine and may adversely effect the health of individuals with phenylketonuria (PKU).

Exposure

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Dike fire-control water for later disposal.

Combustible solid; may burn but does not ignite readily. **Flammability Conditions**

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction. Do not scatter spilled material with high-

pressure water streams.

Avoid generating dust; Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is Fire and Explosion Hazard

a potential dust explosion hazard.

Hazardous Products of

Combustion

Fire may produce irritating and/or toxic gases, including oxides of Carbon, oxides of Nitrogen.

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may cause pollution.

Personal Protective Equipment Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

Flash Point No Data Available **Lower Explosion Limit** No Data Available **Upper Explosion Limit** No Data Available **Auto Ignition Temperature** No Data Available **Hazchem Code** No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. ELIMINATE all ignition sources (if dust clouds can occur). Do not touch or walk through

spilled material. Avoid generating dust. Avoid breathing dusts or mists and contact with eyes, skin and clothing.

Clean Up Procedures Carefully shovel or sweep up spilled material and place in suitable container for disposal (see SECTION 13).

*Non-sparking tools should be used.

Containment Stop leak if you can do it without risk. Prevent dust cloud. Prevent entry into waterways, sewers, basements or confined

areas.

Decontamination Wash area down with excess water. **Environmental Precautionary**

Measures

Prevent entry into drains and waterways.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

> adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dusts or mists and contact with eyes, skin and clothing. Use personal protective equipment as required (see SECTION 8). WARNING: May form combustible dust concentrations in air! Keep away from

heat and sources of ignition - No smoking. Take precautionary measures against static discharges.

Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from heat Storage

and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable dust).

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust

ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing

dispersion of it into the general work area.

Personal Protection Equipment - Respiratory protection: Wear respiratory protection if needed for dust exposure during unusual handling conditions.

Recommended: Dust mask/particulate respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses.

- Hand protection: Handle with gloves. Recommended: Protective gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls,

safety shoes.

Special Hazards Precaustions No information available.

Work Hygienic Practices Do not eat, drink or smoke when using this product. Wash hands and contaminated skin thoroughly after handling. Take

off contaminated clothing and wash it before reuse. Routine housekeeping should be instituted to ensure that dusts do

not accumulate on surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Crystalline powder or granules

Odour Odourless
Colour White

pH 4.5 - 6.0 (0.8% soln.)

Vapour Pressure No Data Available

Relative Vapour Density No Data Available

Boiling Point No Data Available

Melting Point 248 - 250 °C

Freezing Point No Data Available

Solubility Sparingly soluble in water - Slightly soluble in alcohol

No Data Available

Specific Gravity No Data Available **Flash Point** No Data Available **Auto Ignition Temp** No Data Available **Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available Density No Data Available **Specific Heat** No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available Vapour Temperature No Data Available Viscosity No Data Available **Volatile Percent** No Data Available

VOC Volume

Additional Characteristics No information available.

Potential for Dust Explosion Avoid generating dust; Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is

a potential dust explosion hazard.

Fast or Intensely Burning

Characteristics

No information available.

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a No information available.

Fire

Properties That May Initiate or Contribute to Fire Intensity

Combustible solid; may burn but does not ignite readily.

Reactions That Release Gases or

Vapours

Fire/decomposition may produce irritating and/or toxic gases, including oxides of Carbon, oxides of Nitrogen.

Release of Invisible Flammable

No information available.

Vapours and Gases

10. STABILITY AND REACTIVITY

General Information No information available.

Stable under normal temperatures and pressures. **Chemical Stability**

Conditions to Avoid Avoid generating dust. Keep away from heat and sources of ignition.

Materials to Avoid Incompatible/reactive with strong oxidising agents, strong acids, strong alkalis.

Hazardous Decomposition

Products

Fire/decomposition may produce irritating and/or toxic gases, including oxides of Carbon, oxides of Nitrogen.

Hazardous Polymerisation Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information Information on toxicological effects:

- Acute toxicity: No information available.
- Skin corrosion/irritation: No information available.
- Serious eye damage/irritation: No information available.
- Respiratory/skin sensitisation: No information available.
- Germ cell mutagenicity: No information available.
- Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- Reproductive toxicity: No information available.
- STOT (single exposure): No information available.
- STOT (repeated exposure): No information available.
- Aspiration toxicity: No information available.

Information on likely routes of exposure:

- Ingestion: May cause gastrointestinal discomfort if consumed in large amounts.
- Eye contact: Dust contact with the eyes can lead to mechanical irritation.
- Skin contact: Contact with dust can cause mechanical irritation or drying of the skin.
- Inhalation: May cause irritation of respiratory tract.

Chronic effects: No information available.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: >10,000 mg/kg [Supplier's SDS].

None

Carcinogen Category

12. ECOLOGICAL INFORMATION

Ecotoxicity No information available.

Persistence/Degradability Expected to be readily biodegradable.

Mobility No information available.

Environmental Fate Prevent entry into drains and waterways.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Recycle to process, if possible; or dispose of by incineration and in accordance with local/regional/national regulations.

Special Precautions for Land Fill No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name Aspartame

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name Aspartame

Class No Data Available
Subsidiary Risk(s) No Data Available
No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name Aspartame

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping Name Aspartame

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name Aspartame

Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available
EMS No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping Name Aspartame

Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods ClassificationNOT Dangerous Goods according to the Criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information No Data Available
Poisons Schedule (Aust) Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Hazardous

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) 245-261-3

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

16. OTHER INFORMATION

Related Product Codes

ASPART1000, ASPART1001, ASPART1002, ASPART1003, ASPART1004, ASPART1005, ASPART1006, ASPART1007, ASPART1008, ASPART1009, ASPART1010, ASPART1000, ASPART1200, ASPART1200, ASPART2000, ASPART2001, ASPART2200, ASPART2300, ASPART2310, ASPART2320, ASPART2400, ASPART2500, ASPART2600, ASPART3000, ASPART3500, ASPART4000, ASPART4010, ASPART4020, ASPART4030, ASPART5000, ASPART5100, ASPART5300, ASPART5500, ASPART5700, ASPART5900, ASPART6000, ASPART6100, ASPART6201, ASPART6260, ASPART6261, ASPART6262, ASPART6266, ASPART6267, ASPART6300, ASPART6700

Revision

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

COD Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism **IDLH** Immediately Dangerous to Life and Health **immiscible** Liquids are insoluable in each other.

inHg Inch of Mercury inH2O Inch of Water

K Kelvin **kg** Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or \boldsymbol{L} Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours UN United Nations wt Weight