

Safety Data Sheet

1. Identification

Product name PRODEW® 500
 Supplier's name AJINOMOTO DO BRASIL INDÚSTRIA E COMÉRCIO DE ALIMENTOS LTDA.
 SPECIALTY CHEMICALS DEPARTMENT, AMINO SCIENCE DIVISION
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2. Hazard(s) identification

GHS classification of the substance/mixture (classified according to GHS Rev.4)

Physical hazards No special notes (Please refer to below note)

Health hazards No special notes (Please refer to below note)

Environmental hazards No special notes (Please refer to below note)

Note) Items not described above correspond to "Not classified" or "Classification not possible." For details, see Sections 9 to 12 and Section 16.

GHS label elements

Symbol None

Signal words None

Hazard statements None

Precautionary statements

Prevention None

Response None

Storage None

Disposal None

3. Composition/information on ingredients

Classification of substance/mixture: Mixture

Component	PCPC INCI Name	Concentration *1	CAS Number
Sodium L-Pyrrolidonecarboxylate	Sodium PCA	15.00%	28874-51-3
Sodium Lactate	Sodium Lactate	12.00%	72-17-3
L-Arginine	Arginine	8.00%	74-79-3
L-Aspartic acid	Aspartic Acid	5.20%	56-84-8
L-Pyrrolidonecarboxylic acid	PCA	4.27%	98-79-3
Glycine	Glycine	1.28%	56-40-6
L-Alanine	Alanine	1.20%	56-41-7
L-Serine	Serine	0.80%	56-45-1
L-Valine	Valine	0.64%	72-18-4
L-Proline	Proline	0.40%	147-85-3
L-Threonine	Threonine	0.40%	72-19-5
L-Isoleucine	Isoleucine	0.40%	73-32-5
L-Histidine	Histidine	0.16%	71-00-1
L-Phenylalanine	Phenylalanine	0.16%	63-91-2
Water	Water	50.09%	7732-18-5

*1 Typical concentration

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call doctor if you feel unwell.

Skin contact Wash thoroughly with water and soap. If skin irritation occurs: Get medical advice/attention.

Eye contact Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

Ingestion Rinse mouth. Call doctor if you feel unwell.

5. Fire-fighting measures

Extinguishing media	Small fires: Carbon dioxide (CO ₂), pressurized dry chemical and dry sand. Large fires: Use foam extinguishers to separate the flame/ignition source from the product surface. Straight stream.
Unsuitable extinguishing media	
Specific hazards	Burning may generate harmful gases such as carbon monoxide and/or nitrogen oxides. Be careful not to breathe in harmful gases.
Special protective actions for fire-fighters	Fire-fighting should be done from the windward side. Wear suitable protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear suitable protective equipment (see Section 8 of this document) to prevent contacts on eyes and skin, and inhalation. Stay on the windward side of the leak.
Environmental precautions	Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Prevent further leakage if safe to do so.
Containment and neutralization	Contain spillage and collect with non-combustible absorbent material (e.g. sand, earth). Transfer to a tightly-closed container for disposal according to the local regulations.
Prevention of a secondary disaster	Do not let the product enter drains, basements and enclosed spaces.

7. Handling and storage

Precautions for safe handling	
Technical measures	Places for storing or utilizing this product should be equipped with facilities for washing eyes and bodies of workers.
Hygiene measures	Wash hands thoroughly after handling this product.
Conditions for safe storage, including any incompatibilities	Places for storage should be equipped with lighting and ventilation. Keep the product away from oxidizing agents. Containers should be tightly-closed. Do not keep this product in a container after opening, microorganisms may grow.

8. Exposure controls/personal protection

Control parameters	USA. ACGIH Threshold Limit Values (2009)	No settings
Occupational exposure limit values (biological limit values)	No data available.	
Appropriate engineering controls	When vapors are generated, use a local exhaust ventilation etc. according to the situation.	
Individual protection measures		
Respiratory protection	Wear respiratory protection when ventilation is insufficient.	
Hand protection	Wear protective gloves.	
Eye protection	Wear safety glasses, goggles etc.	
Skin/body protection	Wear suitable protective clothings.	

9. Physical and chemical properties

Appearance	Physical state	Liquid
	Colour	Colorless to pale yellow
	Odour	A slightly characteristic odor
pH		4.0 – 6.0 [Neat, 25°C]
Melting point/freezing point		No data available.
Initial boiling point and boiling range		No data available.
Flash point		No data available.
Upper/lower flammability or explosive limits		No data available.
Vapour pressure		No data available.
Relative density		No data available.
Solubility		Freely soluble.
Partition coefficient: n-octanol/water		No data available.
Auto-ignition temperature		No data available.
Decomposition temperature		No data available.
Viscosity		No data available.

10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Decomposes with heat under strong alkaline condition.
Possibility of hazardous reactions	No special notes.
Conditions to avoid	No special notes.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Burning can generate carbon monoxide, nitrogen oxides.

11. Toxicological information

Acute toxicity	Oral	No data available.
	Dermal	No data available.
	Gases / vapours	No data available.
Skin corrosion / irritation	<i>In vitro</i> Skin Irritation Test (LabCyte EPI-MODEL24 SIT; OECD TG439, GLP) Non-irritant (UN GHS Category: not classified (including UN GHS Category 3))	
Serious eye damage / eye irritation	<i>In vitro</i> Eye Irritation Test (EpiOcular™ EIT (OCL-200); OECD TG492, GLP) Non-irritant (UN GHS Category: not classified)	
Respiratory sensitization	No data available.	
Skin sensitization	No data available.	
Germ cell mutagenicity	No data available.	
Carcinogenicity	No data available.	
Reproductive toxicity	No data available.	
Specific target organ toxicity (Single exposure)	No data available.	
Specific target organ toxicity (Repeated exposure)	No data available.	
Aspiration hazard	No data available.	

12. Ecological information

Ecotoxicity	
Acute aquatic toxicity	No data available.
Chronic aquatic toxicity	No data available.
Persistence and degradability	No data available.
Hazardous to the ozone layer	None of the controlled substances listed in Annexes to the Montreal Protocol is contained at a concentration of 0.1% or more, thus classification is not possible.

13. Disposal considerations

Residual waste	Dispose product and packaging material according to local regulations. On entrusting waste disposal to a licensed disposal company, notify a company of the danger and hazard.
Packaging material	Packaging materials should be cleaned with contents completely removed, when recycling or disposal.

14. Transport information

International regulations	
Marine pollutant	No
Transport in bulk	No
IMDG	No special notes.
ICAO/IATA	No special notes.
Safety precautions during transportation	Make sure that there is no breakage or corrosion of the container, no leakage of contents, before transportation. Avoid direct sunlight. Load the containers not to overturn, fall, break and leak the contents during transportation. Prevent the load collapse. Do not put heavy loads on top of this product.

15. Regulatory information

No information available.

16. Other information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions.

References

- ACGIH-TLV (2009)