



## MATERIAL SAFETY DATA SHEET - MSDS

### PRODEW 600

#### 1. IDENTIFICATION

**Product name:** PRODEW 600

**Chemical name or common name:** See table in the item 3

**General use:** Ingredient for cosmetics and toiletries

**Company name:** Ajinomoto do Brasil Indústria e Comércio de Alimentos Ltda.

**Address:** Rodovia Anhanguera, Km 131 – Bairro do Jaguari – Limeira – SP - Brazil  
CEP 13480-970

**Phone number:** xx +55 (19) 3404-9000 – **Fax number:** xx +55 (19) 3404-9103

**Emergency phone number:** xx +55 (11) 5080-6700 / Fax: xx +55 (11) 5908-8799

**E-mail:** [cs\\_amino@br.ajinomoto.com](mailto:cs_amino@br.ajinomoto.com)

#### 2. HAZARDS IDENTIFICATION

Classification system used:

*ABNT NBR 14725-2, Chemicals Product - Safety, health and environmental information - Part 2:*

*Hazard classification system.*

*Globally Harmonized System for the Classification and Labeling of Chemicals, UN.*

Adverse effects to human health: There is no relevant information to characterize adverse effects to human health.

Environmental Effects: There is no relevant information to characterize the environmental effects and impacts of the product on the environment, however, it may increase the biological oxygen demand of the water.

Physical and Chemical Hazards: There is no relevant information to characterize the physical and chemical hazards of this product.

Hazard classification: After evaluation of the available information, the product has not been classified in any hazard class, according to the criteria established by ABNT NBR 14725-2.

Appropriate labeling elements: Not applicable.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered a Mixture:

CHEMICAL OR COMMON NAME	REGISTRATION NUMBER CAS	EINECS N°
Trimethylglycine	107-43-7	203-490-6
Sodium L-Pyrrolidonecarboxylate	28874-51-3	249-277-1
Sodium Lactate	72-17-3	200-722-0
DL-Pyrrolidonecarboxylic Acid	149-87-1	205-748-3
L-Serine	56-45-1	200-274-3
L-Alanine	56-41-7	200-273-8
Glycine	56-40-6	200-272-2
L-Glutamic acid	56-86-0	200-293-7
L-Lysine Hydrochloride	657-27-2	211-519-9
L-Threonine	72-19-5	200-774-1
L-Arginine	74-79-3	200-811-1
L-Proline	147-85-3	205-702-2
Water	7732-18-5	231-791-2

### 4. FIRST-AID MEASURES

INHALATION:	Remove victim to fresh air.
EYE CONTACT:	Immediately flush eyes with plenty of water. If irritation develops, call a doctor.
SKIN CONTACT:	Immediately flush skin with plenty of water.
INGESTION:	Immediately flush victim's mouth with water.
PROTECTION OF THE AID PROVIDER AND / OR NOTES TO THE DOCTOR:	Symptomatic treatment.

### 5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES:	Non flammable.
APPROPRIATE EXTINGUISHING MEDIA:	Water, carbon dioxide, or foam.
SPECIAL COMBAT METHODS:	Keep people away from fire and against the direction of the wind. Wear full protective clothing, fire-fighting, and respiratory protection (self-contained breathing apparatus). Cool the container with water spray.

## 6. ACIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:	Prevent spilled material reaches waterways or sewage system.
METHODS FOR CLEANING:	Contain spilled material with sand or earth.

## 7. HANDLING AND STORAGE

### PRECAUTIONS AND GUIDELINES FOR SAFE HANDLING:

Wear suitable protective equipment to avoid contact with skin, eyes and clothing.  
Avoid sudden handling, spillage, fall, or mechanical shock.  
Take care not to leak, overflow, or disperse. Have good hygiene practices after use.  
Remove part or completely in case of breakage.

### STORAGE:

Store in cool and sheltered places. Keep the container tightly closed.  
For the possibility of microbial contamination, use the product soon after the sealing violation.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### ENGINEERING CONTROL MEASURES:

Provide appropriate exhaust ventilation for steam generation.  
Control parameters: Not established.

### SUITABLE PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: Use respirators according to risk analysis

EYE / FACE PROTECTION: Safety glasses are recommended.

SKIN AND BODY PROTECTION: wear standard clothing, gloves, shoes or safety boots - chemical resistance.

EXPOSURE RECOMMENDATIONS: Not established

## 9. PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS

ASPECT:	Colorless to pale yellow liquid.
ODOR:	A slightly characteristic odor.
pH:	4.7 to 5.4 (room temperature).
MELTING POINT / FREEZING POINT:	Not available.
INITIAL BOILING POINT AND BOILING TEMPERATURE BAND:	Not available.
FULGOR POINT:	Not applicable.
EVAPORATION RATE:	Not applicable.
FLAMMABILITY:	Non flammable.
LOWER / UPPER LIMIT OF FLAMMABILITY OR EXPLOSIVITY:	Not applicable.



VAPOR PRESSURE:	Not applicable.
VAPOR DENSITY:	Not applicable.
DENSITY:	Not available.
SOLUBILITY:	Soluble in water
PARTITION COEFFICIENT - N-OCTANOL / WATER:	Not available.
AUTO-IGNITION TEMPERATURE:	Not available.
DECOMPOSITION TEMPERATURE:	Not available.
VISCOSITY:	Not available.

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under normal conditions of handling and storage. Does not suffer polymerization.
INCOMPATIBLE MATERIALS OR SUBSTANCES:	Strong oxidizing agents.
DANGEROUS PRODUCTS OF THE DECOMPOSITION:	Not available.

## 11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 11000mg/Kg (a).
SKIN IRRITATION:	It is not irritating (Draize test, 24 hours, Occlusive application: Solution 5%, Rabbit)
SKIN SENSITIZATION:	Negative (guinea-pig test, Maximization test).
PRIMARY EYE IRRITATION:	No Irritant (Draize test: 5% solution, rabbit)
REVERSE MUTATION TEST IN BACTERIA:	<i>S. typhimurium</i> TA98, TA100, TA1535, TA1537: Negative <i>E. coli</i> WP2 <i>uvrA</i> ; Negative
CARCINOGENICITY:	Not available.
TOXICITY TO REPRODUCTION AND REPRODUCTION DURING LACTATION:	Not available.
SYSTEMIC TOXICITY FOR CERTAIN TARGET ORGANS - SINGLE EXPOSURE:	The product is not expected to exhibit toxicity to the target organ by single exposure.
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURES:	The product is not expected to produce toxicity to the target organ by repeated exposure.
SUCTION HAZARD:	Not available.

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY:	Not available.
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### 13. DISPOSAL CONSIDERATION

Avoid occupational exposure or environmental contamination. Recycle any unused portion of the material for your approved use or return it to the manufacturer or supplier. Other methods consult federal, state and municipal legislation (Resolution CONAMA 005/1993, NBR 10.004 / 2004.)

### 14. TRANSPORT INFORMATION

**Ground transportation (\*)**: Not classified as dangerous in the meaning of transport regulations.

\* Decree No. 96,044 of May 18, 1988. ANTT Resolution No. 5.232 of December 14, 2016.

**Maritime transport (\*)**: Product not hazardous for transport, in accordance with current legislation.

\* IMDG (International Maritime Organization).

**Air transport (\*)**: Not classified as dangerous in the meaning of transport regulations.

\* DGR IATA (Dangerous Goods Regulations - International Air Transport Association).

**UN number**: Not classified as dangerous for transport in the different modes.

### 15. REGULATORY INFORMATION

REGULATIONS: Federal Decree No. 2.657, of July 3, 1998

### 16. OTHER INFORMATION

The present version of this document contains information and recommendations based on the knowledge of the product by Ajinomoto. It is the responsibility of the user to evaluate them and use them appropriately in their specific applications.

#### **Bibliographic reference:**

ABNT NBR 14725-4, Chemicals Product - Safety, health and environmental information. Part 4: Material Safety Data Sheet (MSDS) ABNT.

- (a) ETAm calculated from DL 50 of raw materials that make up the blend. Toxicological data based on Prodeu 400 analog..