

Safety Data Sheet

1. Identification

Product name GELATINIZATION AGENT EB-21
 Supplier's name AJINOMOTO CO., INC.
 Specialty Chemicals Department, AminoScience 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)

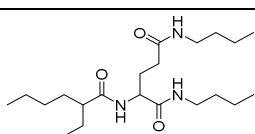
Note) Items not described above correspond to "Not classified" or "Classification not possible." For details, see Sections 9 to 12 and Section 16.

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: Substance

Component	Concentration *1	Chemical formula	CAS Number
N-2-Ethylhexanoyl-L-glutamic acid Dibutylamide	100%		861390-34-3 486455-65-6

*1 Typical concentration

Component	PCPC INCI Name
N-2-Ethylhexanoyl-L-glutamic acid Dibutylamide	Dibutyl Ethylhexanoyl Glutamide

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 (CO₂), pressurized dry chemical and dry sand.
 Large fires: Use foam extinguishers to separate the flame/ignition source from the product surface.
 Unsuitable extinguishing media Straight stream.
 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 Fire-fighting should be done from the windward side.
 for fire-fighters 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	Collect spills in empty containers and dispose according to the local regulations.
Prevention of a secondary disaster	Spills left on the floor should be removed away, as it may be slippery when wet.

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.

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	Take care not to make dust especially within doors, and use a local exhaust ventilation etc. according to the situation. Devices should be explosion-proof and antistatic.	
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	Solid
	Form	Powder
	Colour	White to pale yellow
	Odour	A slightly characteristic odor
Melting point/freezing point		183 – 196°C
Initial boiling point and boiling range		No data available.
Flash point		No data available.
Flammability		No data available.
Upper/lower flammability or explosive limits		No data available.
Vapour pressure		No data available.
Relative density		No data available.
Solubility		No data available.
Partition coefficient: n-octanol/water		No data available.
Auto-ignition temperature		No data available.
Decomposition temperature		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.
Dust explosion hazard	Lower explosion limit: 40 – 45g/m ³ Minimum ignition energy: No data available. Maximum explosion pressure rise rate: No data available.

11. Toxicological information

Acute toxicity	Oral	LD ₅₀ (rat) > 2000 mg/kg (No death)
	Dermal	No data available.
	Gases / vapours	No data available.
Skin corrosion / irritation		Primary skin irritation (Rabbits) "Non irritating" to the rabbit skin. (OECD TG404) Cumulative skin irritation (Guinea-pigs) Cumulative irritation was not observed. (2, 4% ethanol solution; Open application, 14 days) Moderately cumulative irritation was observed. (8% ethanol solution; Open application, 14 days)
Serious eye damage / eye irritation		Primary eye irritation (Rabbits) "Not irritating" to the rabbit eye. (OECD TG405)
Respiratory sensitization		No data available.
Skin sensitization (Guinea-pigs)		Negative (OECD TG406)
Germ cell mutagenicity		Please refer to Section 16.
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		This line is intentionally left blank.
Chronic aquatic toxicity		No data available.
Persistence and degradability		This line is intentionally left blank.
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.

This product is intended for use as a cosmetic ingredient, thus test methods are different in conditions from those of OECD's test guidelines etc. in some cases, and some tests are not followed for GLP compliance.

Although we don't use those results for GHS classification, they are shown here as reference.

Bacterial reverse mutation test (Ames test)	Negative (Pre-incubation method) (<i>S. typhimurium</i> TA1535, TA1537, TA98, TA100) (<i>E. coli</i> WP2 <i>uvrA</i>)
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<i>In vitro</i> mammalian chromosome aberration test	Negative (Cell line: CHL/IU)
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For details of the tests described in this section, please refer to "Safety data summary (Gelatinization Agent EB-21)."

References

- ACGIH-TLV (2009)