AJIDEW™ A-100

E52040

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 5-Jul-2013 Revision date: 02-Oct-2026 Version: 7.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	:	Substance
Trade name	:	AJIDEW™ A-100
CAS-No.	:	149-87-1
EC-No.	:	205-748-3
REACH registration No.	:	01-2120763071-63
Product code	:	E52040
Type of product	:	Cosmetic product
Product group	:	Raw material

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	:	Industrial use,Professional use,Consumer use
Use of the substance/mixture	:	Cosmetic ingredient Cosmetics
Function or use category	:	Cosmetics

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Ajinomoto OmniChem - Amino Acid Solutions
Rue Emile Francqui 7
1435 Mont-Saint-Guibert
Belgium
T +32 (0)10 48 31 22
ASD_QA_contact@aoc.ajinomoto.com

1.4. Emergency telephone number

Emergency number	:	Centre Anti-Poisons / Antigifcentrum (available Dutch, French German, 24/7) +32 70 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : AJIDEW™ A-100

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
DL-Pyrrolidonecarboxylic Acid	CAS-No.: 149-87-1 EC-No.: 205-748-3	100	Not classified

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Other medical advice or treatment:

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No data available

Hazardous decomposition products in case of fire : May release heat and harmful fumes. carbon monoxide. Nitrogen oxides.

5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance.

Protection during firefighting : Wear recommended personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear recommended personal protective equipment.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

6.4. Reference to other sections

See Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures : Always wash hands after handling the product.
General : Handle in accordance with good industrial hygiene and safety procedures

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Provide local exhaust or general room ventilation. Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed.
Incompatible products : Oxidizing agent.
Incompatible materials for storage : Oxidizing agent.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

OEB AOC : N.A. - Not applicable
OEL AOC : No data available

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection (SDS):
Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection (SDS):
Protective clothing

Hand protection (SDS):
protective gloves

8.2.2.3. Respiratory protection

Respiratory protection (SDS):
Wear suitable respiratory equipment in case of insufficient ventilation

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	white. Colourless.
Appearance	:	Crystalline powder.
Odour	:	odourless.
Odour threshold	:	Not available
Melting point	:	179 - 187 ℃
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Explosive limits	:	Not applicable
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	> 300℃
pH	:	Not available
pH solution	:	Not available
Viscosity, kinematic	:	Not applicable
Solubility	:	Water: 5.76% [20℃], 24% [60℃]
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	Not available
Relative vapour density at 20°C	:	Not applicable
Particle size	:	Not available
Particle size distribution	:	Not available
Particle shape	:	Not available
Particle aspect ratio	:	Not available
Particle aggregation state	:	Not available

Particle agglomeration state : Not available
Particle specific surface area : Not available
Particle dustiness : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Light stability : No data available
Pyrophoric properties : No data available
In case of fire, generation of : No data available
Additional information : Decomposes with heat under strong alkaline condition.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Oxidizing agent.
Additional information:No data available

10.6. Hazardous decomposition products

carbon monoxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

AJIDEW™ A-100	
LD_{50} oral mouse	LD_{50} > 2000 mg/kg (No death occurred in all groups)

Skin corrosion/irritation : Not classified

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Skin corrosion/irritation, rabbit	(Non-irritant (5% solution, Draize test))

Serious eye damage/irritation : Not classified

AJIDEW™ A-100	
Primary eye irritation (Rabbits)	(Practically non-irritating (5% solution, Draize test))

Respiratory or skin sensitisation : Not classified

AJIDEW™ A-100	
Skin sensitization, Guinea pig	(Negative (Maximization test))

Germ cell mutagenicity : Not classified

AJIDEW™ A-100	
Germ cell mutagenicity	(Negative (Pre-incubation method) (S. typhimurium TA98, TA100))

Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified
Hazardous to the aquatic environment, long–term (chronic) : Not classified

AJIDEW™ A-100	
LC_{50} (96h) fish	No data available

DL-Pyrrolidonecarboxylic Acid (149-87-1)	
LC_{50} - Fish [1]	19821.9 mg/l Source: Ecological Structure Activity Relationships
EC_{50} 96h algae	16.216 mg/l Source: Ecological Structure Activity Relationships

12.2. Persistence and degradability

AJIDEW™ A-100	
Persistence and degradability	(Biodegradability study (Method: OECD TG301C Modified MITI (I)) 74.4% degraded after 28 days.)

12.3. Bioaccumulative potential

DL-Pyrrolidonecarboxylic Acid (149-87-1)	
Partition coefficient n-octanol/water (Log Pow)	-1.16 Source: The Chemical Database, The Department of Chemistry at the University of Akron

12.4. Mobility in soil

DL-Pyrrolidonecarboxylic Acid (149-87-1)	
Mobility in soil	-0.268 Source: Quantitative Structure Activity Relation

12.5. Results of PBT and vPvB assessment

AJIDEW™ A-100
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

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.))

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. Must follow special treatment according to local regulation.

Product/Packaging disposal recommendations : Do not dispose of the packaging without first carrying out the necessary cleaning.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Cosmetic Regulation (1223/2009)

Not applicable.

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Austria

Ordinance on Flammable Liquids (VbF)	:	Auto detect

Germany

Employment restrictions	:	Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK)	:	Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).
Override matching entry (12. BImSchV)	:	Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

SZW List of Carcinogenic Substances	:	The substance is not listed
SZW List of Mutagenic Substances	:	The substance is not listed
SZW List of Reprotoxic Substances – Breastfeeding	:	The substance is not listed
SZW List of Reprotoxic Substances – Fertility	:	The substance is not listed
SZW List of Reprotoxic Substances – Development	:	The substance is not listed

Switzerland

Storage class (LK)	:	NG - Non-hazardous

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

No additional information available

SDS EU (REACH Annex II) (OmniChem) - New

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