

SAFETY DATA SHEETS

According to Regulation (EU) No.1907/2006, Regulation (EU) No. 1272/2008 and their subsequent amendments and corrigenda

Version : 2.0

Revision date: 17/05/2023

Product name: PromaCare® Ectoine

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

1.1 Product identifier

Brand name: PromaCare® Ectoine

Catalog no.: 95001

INCI name: Ectoin

CAS number: 96702-03-3

EC number: 431-910-1

Nanoform: The product is not in a nanoform.

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

Relevant identified uses: It is used as a skin conditioning in a range of cosmetic products.

Uses advised against: no data available

Reason why uses advised against: no data available

1.3 Details of the supplier of the safety data sheet

Supplier: Uniproma Chemical Co., Ltd

Address: 231 Greenland Avenue, Huaqiao, Kunshan, Suzhou, Jiangsu, 215332 China

Telephone: +86-21-39254391

E-mail:: info@uniproma.com

Fax: +86-21-39254397

1.4 Emergency telephone number

Emergency telephone number: +86-21-39254391

Opening hours: Monday to Friday, 9 am - 5 pm (Standard time zone: UTC/GMT +8 hours).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Not classified.

2.1.2 Additional information

For the full text of Hazard statements: see SECTION 16.

2.2 Label elements

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

Hazard pictogram(s): No symbol.

Signal word: No signal word

Hazard statement(s): none

Precautionary statement(s): none

Supplemental Hazard information (EU): no data available

2.3 Other hazards

no data available

SECTION 3: Composition/information on ingredients

Chemical name	Common names and synonyms	CAS number	EC number	% [weight]	SCL, M-factor, ATE
(S)-2-methyl-3,4,5,6-tetrahydropyrimidine-4-carboxylic acid	Ectoin	96702-03-3	431-910-1	100	-

Additional information for nanoforms

not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water.

Following eye contact

Rinse out with plenty of water. Immediately call in ophthalmologist.

Following ingestion

Make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide (CO₂), Foam, Dry powder.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of:

nitrogen oxides

5.3 Advice for firefighters

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal suggestions see section 13. For exposure controls / personal protection suggestions see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. To avoid dust accumulation in enclosed spaces. Avoid breathing dust. Handle in accordance with good industrial hygiene practices and safety instructions.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

7.3 Specific end use(s)

Main uses of the chemical are mentioned in section 1.2. No other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Hand protectionfull contact:

Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min

splash contact:

Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Skin protection

Wear fire/flammable resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

8.2.3 Environmental exposure controls

See section 6.2.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Powder.

Colour: White

Odour: Slight characteristic odor, no peculiar smell

Melting point/freezing point: ≥ 270 °C.

Boiling point or initial boiling point and boiling range: ≥ 270 °C.

Flammability: no data available

Lower and upper explosion limit: no data available

Flash point: not applicable

Auto-ignition temperature: not applicable

Decomposition temperature: no data available

pH: no data available

Kinematic viscosity: not applicable

Solubility: Soluble in water

Partition coefficient n-octanol/water: no data available

Vapour pressure: no data available.

Density and/or relative density: 1.568 g/cm³. Temperature: 20 °C

Relative vapour density: no data available

Particle characteristics: no data available

9.2 Other information

9.2.1 Information with regard to physical hazard classes

no data available

9.2.2 Other safety characteristics

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2 Chemical stability

Stable under normal circumstances.

10.3 Possibility of hazardous reactions

Strong oxidizing agents.

10.4 Conditions to avoid

Avoid high temperatures and direct sunlight.

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

None under normal storage conditions

SECTION 11: Toxicological information

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

Acute toxicity

- Oral: LD50 - rat (male/female) - > 2 000 mg/kg bw.
- Inhalation: no data available
- Dermal: LD50 - rat (male/female) - > 2 000 mg/kg bw.

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Summary of evaluation of the CMR properties

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

no data available

11.2.2 Other information

no data available

SECTION 12: Ecological information

12.1 Toxicity

• Toxicity to fish: NOEC - Danio rerio (former name: Brachydanio rerio) - > 100mg/L - 96 h

• Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - > 100 mg/L - 48 h

• Toxicity to algae: NOEC - Desmodesmus subspicatus (former name: Scenedesmus subspicatus) - > 100 mg/L -

72 hrs. Remarks: saturated concentration

• Toxicity to microorganisms: EC50 - activated sludge from a domestic - \geq 1000 mg/L - 3 hours. Notes: respiration rate.

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Endocrine disrupting properties

no data available

12.7 Other adverse effects

no data available

SECTION 13: Disposal considerations

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.2 UN proper shipping name

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.3 Transport hazard class(es)

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.4 Packing group

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.5 Environmental hazards

ADR/RID: No IMDG: No IATA: No

14.6 Special precautions for user

no data available

14.7 Maritime transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

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

Chemical name	Common names and synonyms	CAS number	EC number
(S)-2-methyl-3,4,5,6-tetrahydropyrimidine-4-carboxylic acid	Ectoin	96702-03-3	431-910-1
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Indication of changes

Version 2.1 17 May, 2023

Abbreviations and acronymss

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

Key literature references and sources for data

- IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal -The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

Full text of H-Statements referred to under sections 2 and/or 3

none

Advice on any training appropriate for workers to ensure protection of human health and the environment

Provide sufficient information, guidance and training to operating personnel.

The information in this Safety Data Sheet (SDS) was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. According to REACH Article 31(5), the SDS shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market, unless the recipient Member State(s) concerned provide otherwise. It should also be noted that this SDS is applicable to the countries with English as an official language.

----- End of the SDS -----