

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### MIRENAT-GA

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

##### 1.1. Product identifier

Product name : MIRENAT-GA  
Product code : 3631

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

###### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Preservative for food products

###### 1.2.2. Uses advised against

No additional information available.

##### 1.3. Details of the supplier of the safety data sheet

###### Supplier

VEDEQSA, Venta de Especialidades Químicas, S.A.  
C/ Géminis, 4  
08228 Terrassa (Barcelona) - SPAIN  
T +34 93-731-5094 - F +34 93-783-5887  
[registros@vedeqsa.com](mailto:registros@vedeqsa.com)

###### Distributor

Vedeqsa Inc.  
201 N. Forest Ave.  
Independence MO 64050 - US  
T +1 816 318 5111  
[info@vedeqsainc.com](mailto:info@vedeqsainc.com)

##### 1.4. Emergency telephone number

Emergency number : +34 93-736-1966 (-1972) (-1965 Factory)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

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

Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 16

*Adverse physicochemical, human health and environmental effects*

No additional information available.



According to the European Standards  
UNE-EN ISO 9001:2008

## 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger

Hazardous ingredients : ethyl N2-dodecanoyl-L-argininate hydrochloride

Hazard statements (CLP) : H318 - Causes serious eye damage

Precautionary statements (CLP) : P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a doctor  
P280 - Wear eye protection, protective gloves, face protection

## 2.3. Other hazards

No additional information available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable.

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethyl N2-dodecanoyl-L-argininate hydrochloride	(CAS No) 60372-77-2 (EC no) 434-630-6 (EC index no) 607-652-00-0 (REACH-no) 01-0000018076-71-0000	19 - 21	Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Full text of H-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries after eye contact : Causes serious eye damage.

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

No additional information available.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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

**5.2. Special hazards arising from the substance or mixture**

No additional information available.

**5.3. Advice for firefighters**

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Wash any residue left on the floor with pressurized water. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**6.4. Reference to other sections**

See Heading 8. Exposure controls and personal protection.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage temperature	: 4 - 30 °C

## 7.3. Specific end use(s)

No additional information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Propane-1,2-diol (57-55-6)		
United Kingdom	Local name	Propane-1,2-diol
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> particulates 474 mg/m <sup>3</sup> total vapour and particulates
United Kingdom	WEL TWA (ppm)	150 ppm total vapour and particulates

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves
Eye protection	: Chemical goggles or safety glasses
Respiratory protection	: Wear appropriate mask



Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless to light yellow.
Odour	: Characteristic.
Odour threshold	: No data available.
pH	: 3 - 5 (1% H <sub>2</sub> O)
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.

Freezing point	: No data available.
Boiling point	: Not applicable.
Flash point	: 122 °C (opened cup)
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: No data available.
Density	: 1,02 - 1,06 g/cm <sup>3</sup>
Solubility	: Glycerin. Ethanol. Water: Complete.
Log Pow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosion limits	: No data available.

## 9.2. Other information

No additional information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available.

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Alkalis. Strong oxidizing agents. Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide. Nitrogen oxides. fume.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified.

<b>ethyl N2-dodecanoyl-L-argininate hydrochloride (60372-77-2)</b>	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation : Not classified.  
Based on available data, the classification criteria are not met  
pH: 3 - 5 (1% H<sub>2</sub>O)

Serious eye damage/irritation : Causes serious eye damage.  
pH: 3 - 5 (1% H<sub>2</sub>O)

Respiratory or skin sensitisation : Not classified.  
Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified.  
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified.  
Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified.  
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified.  
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Not classified.  
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified.  
Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>ethyl N2-dodecanoyl-L-argininate hydrochloride (60372-77-2)</b>	
EC50 Daphnia	6,54 mg/l 48h - Daphnia magna
LC50 fish	23,7 mg/l 96h - Danio rerio

<b>ethyl N2-dodecanoyl-L-argininate hydrochloride (60372-77-2)</b>	
ErC50 (algae)	0,461 mg/l 72h - Algae

## 12.2. Persistence and degradability

<b>MIRENAT-GA</b>	
Persistence and degradability	Not established.

<b>ethyl N2-dodecanoyl-L-argininate hydrochloride (60372-77-2)</b>	
Biodegradation	89 % (29 days modified sturm test)

## 12.3. Bioaccumulative potential

<b>MIRENAT-GA</b>	
Bioaccumulative potential	Not established.

## 12.4. Mobility in soil

No additional information available.

## 12.5. Results of PBT and vPvB assessment

No additional information available.

## 12.6. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container at hazardous or special waste collection point.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

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

### 14.1. UN number

Not regulated for transport.

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable.  
Proper Shipping Name (IMDG) : Not applicable.  
Proper Shipping Name (IATA) : Not applicable.  
Proper Shipping Name (ADN) : Not applicable.  
Proper Shipping Name (RID) : Not applicable.

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable.

**IMDG**

Transport hazard class(es) (IMDG) : Not applicable.

**IATA**

Transport hazard class(es) (IATA) : Not applicable.

**ADN**

Transport hazard class(es) (ADN) : Not applicable.

**RID**

Transport hazard class(es) (RID) : Not applicable.

**14.4. Packing group**

Packing group (ADR) : Not applicable.

Packing group (IMDG) : Not applicable.

Packing group (IATA) : Not applicable.

Packing group (ADN) : Not applicable.

Packing group (RID) : Not applicable.

**14.5. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available.

**14.6. Special precautions for user****14.6.1. Overland transport**

Tunnel restriction code (ADR) : 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**

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance.

Contains no REACH Annex XIV substances

**15.1.2. National regulations**

No additional information available.



## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Indication of changes:

1			
2			
3			

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

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