

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.
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

Distributor

Vedeqsa Inc.
201 N. Forest Ave.
Independence MO 64050 - US
T +1 816 318 5111
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

Causes serious eye damage.

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+P310 - IF IN EYES: 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
P280 - Wear eye protection, protective gloves, face protection

2.3. Other hazards

No additional information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

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 after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

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

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

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Wash any residue left on the floor with pressurized water.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place.

Incompatible products : Strong acids.

Storage temperature : 4 - 30 °C

7.3. Specific end use(s)

See Heading 1.

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 ³)	10 mg/m ³ particulates 474 mg/m ³ total vapour and particulates
United Kingdom	WEL TWA (ppm)	150 ppm total vapour and particulates

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Impermeable protective nitrile gloves. EN 374-1:2003. EN 420
Eye protection	: Chemical goggles or face shield. EN 166:2001
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Filter AX (brown). EN 136:1998



Environmental exposure controls	: Avoid release to the environment.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Transparent.
Colour	: Colourless to light yellow.
Odour	: Characteristic.
Odour threshold	: No data available.
pH	: 3 - 5 (1% H ₂ O)
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: Not applicable.
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)	: Not applicable.
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 ³
Solubility	: Glycerin. Ethanol. Water: Complete.
Log Pow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: < 150 mPa.s RV2, 50 RPM, 20°C
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

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Alkalis. Strong oxidizing agents.

10.6. Hazardous decomposition products

Fumes. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified.

Based on available data, the classification criteria are not met

ethyl N2-dodecanoyl-L-argininate hydrochloride (60372-77-2)	
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% H2O)
Serious eye damage/irritation	: Causes serious eye damage. pH: 3 - 5 (1% H2O)
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
STOT-single exposure	: Not classified. Based on available data, the classification criteria are not met
STOT-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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
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ethyl N2-dodecanoyl-L-argininate hydrochloride (60372-77-2)	
EC50 Daphnia	6,54 mg/l 48h - Daphnia magna
LC50 fish	23,7 mg/l 96h - Danio rerio
ErC50 (algae)	0,461 mg/l 72h - Algae

12.2. Persistence and degradability

ethyl N2-dodecanoyl-L-argininate hydrochloride (60372-77-2)	
Biodegradation	89 % (29 days modified Sturm test)

12.3. Bioaccumulative potential

No additional information available.

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

No additional information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal : Dispose of this material and its container at hazardous or special waste recommendations collection point.

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	Use of the substance/mixture	Modified	
8.2	Personal protective equipment	Modified	
9.1	Appearance	Added	
16	Abbreviations and acronyms	Added	
16	Other information	Added	

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.

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
vPvB	Very Persistent and Very Bioaccumulative
NOAEL	No-Observed Adverse Effect Level
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant

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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Dam. 1	H318	Calculation method
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