

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

- Product identifier
- Trade name: **MARISEAL AQUA PRIMER A**
- Relevant identified uses of the substance or mixture and uses advised against
No relevant identified uses - mixture of substances.
- Application of the substance / the preparation
Component A. Hardener Epoxy Primer in water solution.
- Details of the supplier of the safety data sheet
MARIS POLYMERS SA
Industrial Area of Inofita
Inofita, Voiotia
Tel: +30 22960 32918
Fax: +30 22960 32919
e-mail: info@marispolymers.gr
- Emergency telephone number:
Poisoning Centre in Athens, Greece
Phone: +30 2107793777

2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



Skin Irrit. 2

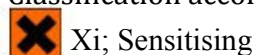
H315 Causes skin irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



R43: May cause sensitisation by skin contact.



R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· Label elements

- Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:



Xi Irritant
N Dangerous for the environment

- Hazard-determining components of labelling:
3,6,9,12-tetra-azatetradecamethylenediamine
- Risk phrases:
43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Safety phrases:
24 Avoid contact with skin.
28 After contact with skin, wash immediately with plenty of water.
29 Do not empty into drains.
37/39 Wear suitable gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
57 Use appropriate container to avoid environmental contamination.
- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture: consisting of the following components.

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· Components:

CAS: 4067-16-7 EINECS: 223-775-9 Index number: 612-064-00-2	3,6,9,12-tetra- azatetradecamethylenediamine  C R34  Xi R43  N R50/53	≤2.5%
	 Skin Corr. 1B, H314  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Sens. 1, H317	

4 First aid measures

- Description of first aid measures
- General information:
Take affected persons out into the fresh air.
Seek immediate medical advice.
- After inhalation:
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Rinse mouth. Consult a doctor for safety reasons.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents: CO₂, sand, extinguishing powder
- Special hazards arising from the substance or mixture
No further relevant information available.
- Advice for firefighters
- Protective equipment:
During fire-fighting, wear suitable respiratory equipment and protective clothes.

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- Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- Handling:
 - Precautions for safe handling
No special precautions are necessary if used correctly.
 - Information about fire - and explosion protection: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
 - Requirements to be met by storerooms and receptacles:
Store in a cool location.
Prevent any seepage into the ground.
 - Information about storage in one common storage facility:
Store away from foodstuffs.
 - Further information about storage conditions: Not required.
 - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities:
No further data; see item 7.

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- Control parameters
- Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
Wash hands before breaks and at the end of work.
Avoid skin contact.
- Respiratory protection: Not required in normal conditions.
- Protection of hands:



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Penetration time of glove material
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- Eye protection:



Safety glasses

- Body protection:



Protective work clothing

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9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	liquid
Colour:	Transparent Yellowish
· Odour:	characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Not applicable.
Boiling point/Boiling range:	100°C
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20°C:	1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not determined.
· Segregation coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.

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Kinematic: Not determined.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:
Stable at environment temperature.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: No irritating effect.
- Sensitization:
Sensitization possible through skin contact.
Sensitizing effect by skin contact is possible by prolonged exposure.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes:
Harmful to the aquatic environment.
The product contains materials that are harmful to the environment.

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- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation



Disposal must be made according to National Legislation.



Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

- Uncleaned packaging:
- Recommendation:
Disposal must be made according to official regulations.
Packaging may be reused or recycled after cleaning.
- Recommended cleansing agents: No required.

14 Transport information

- Land transport ADR/RID (cross-border)
- ADR/RID class: 9 Miscellaneous dangerous substances and articles.
- Danger code (Kemler): 90
- UN-Number: 3082
- Packaging group: III
- Hazard label: 9
- UN proper shipping name: 3082 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (3,6,9,12-tetra-
azatetradecamethylenediamine)
- Tunnel restriction code E

- Maritime transport IMDG:
- IMDG Class: 9
- UN Number: 3082
- Label 9

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- Packaging group: III
- EMS Number: F-A,S-F
- Marine pollutant: Yes
- Segregation groups: Alkalis
- Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,6,9,12-tetra-azatetradecamethylenediamine)

- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 9
- UN/ID Number: 3082
- Label: 9
- Packaging group: III
- Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,6,9,12-tetra-azatetradecamethylenediamine)

- UN "Model Regulation": UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
- Special precautions for user: Warning: Miscellaneous dangerous substances and articles.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Code letter and hazard designation of product:



Xi Irritant
N Dangerous for the environment

- Hazard-determining components of labelling: 3,6,9,12-tetra-azatetradecamethylenediamine

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· Risk phrases:

- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

- 24 Avoid contact with skin.
- 28 After contact with skin, wash immediately with plenty of water.
- 29 Do not empty into drains.
- 37/39 Wear suitable gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 57 Use appropriate container to avoid environmental contamination.

· Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- R34 Causes burns.
- R43 May cause sensitisation by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Department issuing MSDS:

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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