

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product identifier**

Product name: MARMOLINE DURA EP INJECTION – Summer (Component B)
Chemical Type: mixture

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

Two component solvent free epoxy injection resin. For use in concrete repairs and restoration of cracks

Advised uses

Relevant uses are listed above.

Not advised uses

No other uses are recommended unless an assessment has been conducted prior to the start of that use, which demonstrates that the risks associated with that use are controlled.

Details of the supplier of the safety data sheet

NORDIA S.A.
364 Kifisias Av.
15233 Chalandri - Greece
Phone.: +30 22950 22225 -
Fax: +30 22950 22120
info@marmoline.gr
www.marmoline.gr

Emergency telephone number +30 22950 22225 / Greek poison center +30 2107793777

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the mixture**

GHS05 : Corrosion

Skin Corr 1B :H314 : Causes severe skin burns and eye damage



GHS07

Acute Tox. 4 : H302 : Harmful if swallowed
Acute Tox. 4: H312 : Harmful in contact with skin
Skin Sens 1: H317 : May cause an allergic skin reaction
Aquatic Chronic 3 H412 : Harmful to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms:



GHS05 GHS07

- Signal word : Warning

- Hazardous components which must be listed on labels:

aliphatic amines
benzyl alcohol
Polyanine adduct



MARMOLINE DURA EP INJECTION - Summer (Comp. B)

Hazard statements:

- H314 : Causes severe skin burns and eye damage
- H302 : Harmful if swallowed
- H312 : Harmful in contact with skin
- H317 : May cause an allergic skin reaction
- H412 : Harmful to aquatic life with long lasting effects

Precautionary statements:

- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P273 : Avoid release to the environment
- P309+P311 : IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
- P405 : Store locked up
- P102 : Keep out of reach of children







2.3 Other hazards

- Results of PBT and vPvB
- PBT: Not applicable
- vPvB: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Chemical characterization: Mixtures

Description: Mixture of substances listed below with harmless additions

Dangerous substances		
CAS : 112-57-2 EINECS : 203-986-2	tetraethylenepentamine  Skin Corr 1B, H314  Acute Tox.4 H302, Acute Tox. 4 H312, Skin Sens. 1, H317, Aquatic Chronic 3, H412	50-90%
CAS : 111-40-0 EINECS : 203-865-4	diethylenetriamine  Skin Corr 1B, H314  Acute Tox.4 H302, Acute Tox. 4 H312, Skin Sens. 1, H317, Aquatic Chronic 3, H412	5-10%
CAS : 100-51-6 EINECS : 202-859-9	benzyl alcohol  Acute Tox.4 H302, Acute Tox. 4 H312, Acute Tox.4, H332, Skin Sens. 1, H317	5-10%
	Polyamine adduct  Skin Sens.1, H317	<20%
Additional information For an explanation of the listed risk phrases, you should refer to Chapter 16		

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information:

- Immediately remove any clothing soiled by the product.
- Symptoms of poisoning may even occur after several hours; therefore the medical supervision is necessary for at least two 24-hour after an accident.

In case of inhalation

- Supply fresh air and call for a doctor
- In case of unconsciousness, bring patient to stable sideways position.

In case of contact:

- Immediately wash thoroughly with water and soap and rinse thoroughly

In case of contact with eyes

- Open the eyelids and wash eyes under running water for a long time

In case of swallowing

- swallowing of a sufficient quantity of water is required. Stay in the fresh air. Call for a doctor

4.2 Most important symptoms and effects, both acute and delayed

No further information

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media: CO₂, fire-fighting powder or water jet at high pressure.

5.2 Special hazards arising from the substance or mixture: In case of heating or fire toxic gases may be developed

5.3 Advice for firefighters: Special protective equipment: Wear breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.

6.2 Environmental procedures

Do not allow the mixture to disperse into waterways or sewers. If the product has escaped into a water course, into a drainage system or has contaminated the ground or the vegetation, notify the appropriate authorities.

6.3 Methods and material for containment and cleaning up

The collected material should be normally deposited.

Absorb it with field binders (sand, flint deposits, acid binders, universal binders, sawdust).

6.4 Reference to other sections

Information on safe handling. (See Chapter 7)

Information on personal protection equipment. (See Chapter 8)

For disposal information. (See Chapter 13)

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

- Ensure good ventilation / exhaustation at the workplace.
- Avoid spray .

Instructions about protection against fire and explosion:

- Protect from excessive heat.
- Take precautionary measures against electrostatic discharges.

7.2 Conditions for safe storage, including any incompatibilities

Storing

Requirements to Containers and warehouses.

- Store in a cool place
- Ventilation of containers

Advice on common storage facility: Not required

Further information about storage conditions:

- Protect from heat and direct sunlight
- Keep container tightly sealed.



7.3 Specific end use(s) : No further information

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

- Substances whose occupational exposure limits have to be monitored in the work environment:
There are no environmental limits that should be checked, for the substances contained in the product
Additional information. The current lists of the preparation were used as a basis

8.2 Exposure controls

- Personal protective equipment
- Respiratory protection
- Protection of hands: Protective gloves (material of the gloves must be impermeable and resistant to the product / the substance / the preparation).
Glove material: The selection of suitable gloves, does not only depend on the material, but also on further characteristics of quality and varies from manufacturer to manufacturer. As the product is actually a preparation of several substances, the resistance of the glove material cannot be assured, and this should be checked before use.
Eye protection: Tightly sealed goggles
Body protection: Protective work clothing / Boots

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Form: Liquid
Color: Dark yellow
Odour: ammonia
PH value: Unspecified
Change in condition
Melting point / Melting range: Not determined
Boiling point / Boiling range: Not determined
Flash point: Not specified
Flammability (solid, gaseous): Unused
Ignition temperature: Not specified
Risk of explosion: No explosion hazard
Properties spread of fire: Not classified as oxidising
Density at 25 ° C: ~ 1 gr / cm³
Relative density: Not specified
Vapour density: Not specified
Solubility in / miscibility with water: Insoluble

9.2 Other information:

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity : see 10.3

10.2 Chemical stability:

- Thermal decomposition / conditions to be avoided.
No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions: It reacts with strong acids and oxidizing agents.

10.4 Conditions to avoid : No further relevant information available.

10.5 Incompatible materials No further relevant information available.

10.6 Hazardous decomposition products Carbon monoxide and carbon dioxide



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

- Acute toxicity hazard.

Significant ranking values LD / LC 50		
100-51-6 benzyl alcohol		
Oral	LD 50	1230 mg/kg (rat)
Dermal	LD 50	2000 mg/kg (rat)

Primary irritant effect

- On the skin: Caustic effect on skin and mucous membranes.
- On the eye: Strong caustic effect.
- Sensitization: May cause sensitization by skin contact

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Aquatic toxicity :No further information available.

12.2 Persistence and degradability: Difficult biodegradation.

12.3 Bioaccumulative potential: No further information available.

12.4 Mobility in soil: No further information available.

12.5 Results of PBT and vPvB assessment: Not applicable

12.6 Other adverse effects: No further information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not empty into drains

Contaminated packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR/IMDG/IATA : UN 2735

14.2 UN proper shipping name

ADR :

UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S. mixture

IMDG /IATA:

UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S. mixture

14.3 Transport hazard class(es):

ADR:





Class: 8 Corrosives
 Label : 8
 IMDG, IATA:



Class: 8 Corrosives
 Label : 8

14.4 Packing group:

ADR/IMDG/IATA : III

14.5 Dangers for the environment

- Marine pollutant : No

14.6 Special precautions for the user

Warning: Corrosives
 - Kemler Number: 80
 - EMS Number: F-A, S-B

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable
 UN "Model Regulation" UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S. ,mixture, 8 III

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 of 18/12/2006
- Regulation (EC) No 987/2008 of 09/10/2008
- Corrigendum to European Regulation (EC) No. 987/2008 of 08/10/2008
- Directive 2003/53 / EC of the EP and of the Council of 18/6/2003
- Regulation (EC) No. 552/2009 of 22/06/2009
- Regulation (EC) No. 1272/2008 of 16/12/2008
- Regulation (EU) No. 453/2010 of 20/05/2010
- Legislative Decree No. 81/2008
- Requirements of regulation (EC) No. 1907/2006 "REACH"

It contains benzyl alcohol and cycloaliphatic amines.

SECTION 16: OTHER INFORMATION

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The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -