

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

### **1.1 Product identifier**

**Trade name/designation** Marecoat A 598

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

#### **Relevant identified uses**

##### **Sector of uses [SU]**

SU6b Manufacture of pulp, paper and paper products

##### **Product categories [PC]**

PC26 Paper and board dye, finishing and impregnation products: including bleaches and other processing aids

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

#### **Manufacturer**

Mare Dynamics s.r.l.

Via delle Molina 69/A Veneri

I-51012 Pescia Pistoia

Telephone: +39 0572427208

Telefax: +39 0572427208

E-mail: reach@mare.com

Information telephone: +49 (0) 2421 99875 88

### **1.4 Emergency telephone number**

Spain: +34 91 56 20 420 Italy: +39 (02) 66 10 10 29 Austria: +43 1 406 43 43 France, Belgium: +33 (0)1 45 42 59 59, Slovak Republic: +421 (5) 477 41 66 Germany, Netherlands: +49 (228) 19 24 0 Czech Republic: +420 (2) 249 19 293 United Kingdom: +44 (0) 1865 407 333 Sweden: +46 (0) 20-996000, Poland +48 58 682 19 39 (Pomerania Center of Toxicology), Greece +30 21 07 79 37 77 ,Turkey +90 0312 433 70 01 // 0 800 314 7900

## **SECTION 2: Hazards identification**

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

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

#### **Environmental hazards**

Aquatic Chronic 3

#### **Hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

### **2.2 Label elements**

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

#### **Hazard statements**

##### **Hazard statements for environmental hazards:**

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

##### **Prevention:**

P273 Avoid release to the environment.

##### **Disposal:**

P501 Dispose of contents/container to industrial incineration plant.

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## **2.3 Other hazards**

No data available.

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## **SECTION 3: Composition / information on ingredients**

### **3.1/3.2 Substances/Mixtures**

#### **Description**

Polymers in aqueous solution.

#### **Hazardous ingredients**

Hexanedionic acid, polymer with chloro-methyloxirane and N-(2-aminoethyl)-1,2-ethanediamine	4 - 8 %
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CAS 25212-19-5

Aquatic Chronic 2, H411

Polyethyleneimine, modified	10 - 15 %
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Aquatic Chronic 2, H411

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## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

#### **General information**

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

#### **Following inhalation**

Remove casualty to fresh air and keep warm and at rest.

#### **Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.

#### **After eye contact**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

#### **After ingestion**

Do not induce vomiting. Rinse mouth immediately and drink large quantities of water.

#### **Self-protection of the first aider**

First aid assistant: Pay attention to self-protection!

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

#### **Symptoms**

No known symptoms to date.

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

#### **Notes for the doctor**

First Aid, decontamination, treatment of symptoms.

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## **SECTION 5: Firefighting measures**

### **Additional information**

Let off heat to prevent increase in pressure. The product itself is not combustible. Extinguishing materials should be selected according to the surrounding area. Use water spray/stream to protect personnel and to cool endangered containers. Remove product from area of fire. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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## 5.1 Extinguishing media

### Suitable extinguishing media

Water. Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder. ABC powder.

## 5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products

In case of fire may be liberated:

Nitrogen oxides (NO<sub>x</sub>).

Carbon monoxide.

Carbon dioxide (CO<sub>2</sub>).

Pyrolysis products, toxic.

## 5.3 Advice for firefighters

### Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical resistant suit.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

##### Personal precautions

Use personal protection equipment.

### 6.2 Environmental precautions

Do not empty into drains or the aquatic environment. Retain contaminated washing water and dispose.

### 6.3 Methods and material for containment and cleaning up

#### For containment

##### Suitable material for taking up:

Universal binder.

Kieselguhr.

Sand.

#### For cleaning up

##### Suitable material for diluting or neutralizing:

Water.

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Used working clothes should not be worn outside the work area.

#### Protective measures

##### Advices on safe handling

It is recommended to design all work processes always so that the following is excluded:

Inhalation of vapours or spray/mists.

Skin contact.

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Eye contact.

**Measures to prevent fire**

Usual measures for fire prevention.

**Environmental precautions**

Shafts and sewers must be protected from permeation of the product. Provide for retaining containers, eg. floor pan without outflow.

**Specific requirements or handling rules**

Suitable material for Container:

Stainless steel. polyethylene.

Unsuitable materials for Container: Aluminium.

Iron. Steel.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Suitable material for Container:

Stainless steel. Polyethylene. Keep container tightly closed.

Unsuitable materials for Container:

Aluminium. Iron. Steel. Shafts and sewers must be protected from permeation of the product. Provide for retaining containers, eg. floor pan without outflow.

**Hints on joint storage**

**Storage class**

Non-combustible liquids.

**Further information on storage conditions**

Keep container tightly closed in a cool, well-ventilated place.

Protect against:

Frost.

UV-radiation/sunlight.

**7.3 Specific end use(s)**

**Recommendation**

Observe technical data sheet.

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Remark**

none

**8.2 Exposure controls**

**Appropriate engineering controls**

**Technical measures to prevent exposure**

Refer to chapter 7. No further action is necessary.

**Personal protection equipment**

**Eye/face protection**

**Suitable eye protection:**

Goggles

Eye glasses with side protection

**Recommended eye protection articles**

**DIN-/EN-Norms:**

DIN EN 166

**Skin protection**

**Suitable gloves type:**

Half-gloves.

**Suitable material:**

PVC (Polyvinyl chloride). NR (Natural rubber (caoutchouc), Natural latex). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). Butyl rubber. FKM (fluororubber).

**Required properties:**

liquid-tight.

**Breakthrough time (maximum wearing time)**  $\geq 0$  -  $< 8$  h

**Thickness of the glove material** ca.0,3 -  $< 0,5$  mm

**Recommended glove articles**

**DIN-/EN-Norms:**

DIN EN 374

**Body protection:**

**Suitable protective clothing:**

Chemical resistant safety shoes. Overall.

**Respiratory protection**

Respiratory protection required in case of:  
aerosol or mist generation.

**Environmental exposure controls**

**Technical measures to prevent exposure**

not determined

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

**Physical state**

liquid

**Colour**

amber

clear

**Odour**

characteristic

		parameter	Method - source - remark
pH	7 - 9	Temperature 20 °C	
Melting point/freezing point			not determined
Initial boiling point and boiling range	ca.100 °C		
Flash point (°C)	$> 60$ °C		
Evaporation rate			not determined

parameter		Method - source - remark
flammability		not determined
Upper explosion limit		not determined
lower explosion limit		not determined
Vapour pressure		not determined
Vapour density		not determined
Density	1,02 - 1,08 g/mL	Temperature 20 °C
Fat solubility (g/L)		not determined
Water solubility (g/L)		miscible
Soluble (g/L) in		not determined
Partition coefficient: n-octanol/water		not determined
Auto-ignition temperature	380 °C	
Auto-ignition temperature		not determined
Decomposition temperature		not determined
Dynamic viscosity	< 1000 mPa*s	Temperature 20 °C
flow time		not determined
Kinematic viscosity		not determined

## 9.2 Other safety information

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

not relevant

### 10.5 Incompatible materials

#### Materials to avoid

Oxidising agent, strong

### 10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## SECTION 11: Toxicological information

### Toxicokinetics, metabolism and distribution

#### Non-human toxicological data

**remark**

There are no data available on the preparation/mixture itself.

#### 11.1 Information on toxicological effects

##### Acute toxicity

**Acute oral toxicity** >2000 mg/kg

**Effective dose**

ATEmix tested:

**Species:**

Rat.

**remark**

Direct derivation of an ATE because of robust data.

##### skin corrosion/irritation

**Assessment/classification**

Not an irritant.

**remark**

Practical experience/human evidence.

##### Eye damage/irritation

**Species:**

Rabbit.

**Method**

(Draize test).

**Assessment/classification**

Not an irritant.

##### Respiratory or skin sensitisation

##### Skin sensitisation

**Result / evaluation**

not sensitising.

**remark**

Practical experience.

##### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### Overall Assessment on CMR properties

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

**Acute (short-term) fish toxicity** 10 - 100 mg/L

**Effective dose**

LC50:

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**Test duration** 96 h

**species**

Brachydanio rerio (zebrafish)

**Method**

OECD 203

**Acute (short-term) toxicity to crustacea** 10 - 100 mg/L

**Effective dose**

EC50

**Test duration** 48 h

**species**

Daphnia magna (Big water flea)

**Method**

OECD 202

**Effects in sewage plants** 100 - 1000 mg/L

**Effective dose**

EC20:

**Exposure time** 0,5 h

**Method**

OECD 209

**Inoculum:**

municipal

**evaluation**

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

**remark**

Observe regulations concerning local drainage.

## **12.2 Persistence and degradability**

### **Biodegradation**

**ingredient** Polyethyleneimine, modified

**Degradation rate (%):** <10 %

**Method**

OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D

**remark**

Some of the components are poorly biodegradable.

## **12.3 Bioaccumulative potential**

### **Assessment/classification**

No data available

## **12.4 Mobility in soil**

No information available.

## **12.5 Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## **12.6 Other adverse effects**

No information available.

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Appropriate disposal / Product**

Waste disposal according to official state regulations.

**Appropriate disposal / Package**

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.  
Packing which cannot be properly cleaned must be thrown away.

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**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	not applicable	not applicable	not applicable
14.2 Proper Shipping Name			
14.3 Class(es)			
14.4 Packing group			
14.5 ENVIRONMENTALLY HAZARDOUS			
14.6 Special precautions for user			
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			

**Additional information****All transport carriers**

No dangerous good in sense of these transport regulations.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****15.2 Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

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**SECTION 16: Other information****Additional information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**Relevant H- and EUH-phrases (Number and full text)**

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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