

GIORGIO GRAESAN  
and Friends

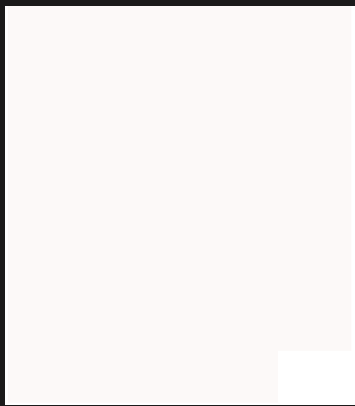


PRODUCT GUIDE

GIOIA  
DECORATIVE PAINT

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GIORGIO GRAESAN  
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CONMARBLE  
Earth, Lime & Clay  
Plasters and Sustainable  
Finishes

## TECHNICAL DATA SHEET

GIOIA  
DECORATIVE PAINT

<b>GIORGIO GRAESAN</b> and Friends	<b>TECHNICAL SHEET</b>  <b>GIOIA</b>	Code	TDS2000_00
		Revision	00
		Date	18/05/2018

## 1. DESCRIPTION

GIOIA is a decorative paint for interiors with eye-catching and sparkling iridescent effects. With silver mother-of-pearl flakes, once applied, the product shifts in shine and design depending on how the light strikes. Made with water-based acrylic copolymers, it has good washability and is resistant to bacterial agents. Available in 169 different colours.

## 2. USE

GIOIA is recommended for decorating interior wall surfaces of various kinds. It is easy to apply with the PE 9 brush.

## 3. PREPARING THE SUBSTRATE

Proper preparation of the substrate is essential for a perfect finish. Therefore, eliminate any peeling or crumbling paint or plaster, taking care to wash or brush any mould or dust. Before applying PRIMUS SABBIA, the surface must always be properly cohesive, otherwise, proceed with an insulating bonding agent, recommended especially in the case of plasterboard walls.

If applying on tiles, after degreasing the wall with denatured ethanol, smooth out any wide grout lines by carefully grouting with PRIMUS AGGRAPPANTE, let dry, then, using a stainless steel KIT/I trowel, apply a coat of PRIMUS AGRAPPANTE, smoothly and evenly.

If a completely smooth surface is desired, once the substrate is dry, we recommend applying a suitable self-levelling putty and an insulating bonding agent.

Next, apply PRIMUS SABBIA.

## 4. METHOD OF APPLICATION

GIOIA is ready for use. Colour by pouring the COLOURING ADDITIVE, previously mixed, in the quantity indicated in the catalogue and mix until the colour is completely homogeneous, taking care not to leave uncoloured product on the bottom or on the sides of the tin.

Apply two coats of product with the PE 9 brush, working in cross-hatch brush strokes.

## 5. CLEANING THE TOOLS

Clean the tools with water immediately after use.

## 6. PROTECTING AND CLEANING

After 24 hours, GIOIA can be further protected by applying, using the PE 3 brush, a coat of pure VETRO. This way, good water repellency is achieved and the wall is fully washable, using LATTE DETERGENTE (dilute 50 ml in 1 litre of water).

## 7. SAFETY RECOMMENDATIONS AND RISK IDENTIFICATION.

The product does not require labelling according to current regulations. Use the product according to current health and safety regulations; after use, do not dispose of containers to the environment; let residue dry thoroughly and handle as special waste. Keep out of the reach of children. If swallowed, seek medical advice immediately and show this container or label. Do not empty into drains, waterways or soil.

For more information, see safety data sheet available on: [www.giorgiograesan.it](http://www.giorgiograesan.it)

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<b>TECHNICAL CHARACTERISTICS: APPLICATION</b>	
Dilution	Product is ready for use.
Mixing	Always mix before use
Colouring	169 colours in the catalogue (before use, eliminate any skin and mix)
Tools	PE 9 brush
Primer	PRIMUS SABBIA (at least one coat)
Conditions of application	From +10°C to +35°C with relative humidity < 85%
Number of coats	2
Drying time	Each coat dries in 6 – 8 hours at 20°C
Curing time	24 – 36 hours at 20°C
Protection	VETRO (one coat) with PE 13 roller
Washability	Good washability. Full wash with LATTE DETERGENTE if protected with VETRO

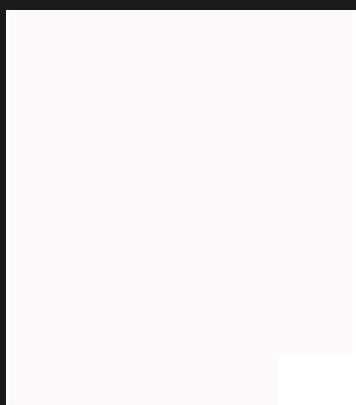
<b>TECHNICAL CHARACTERISTICS: COVERAGE</b>	
PRIMUS SABBIA / PRIMUS NATURALE	6 – 7 sqm/litre
GIOIA	7 – 9 sqm/litre for two coats
VETRO	7 – 8 sqm/litre

<b>TECHNICAL CHARACTERISTICS: COLOURING</b>				
COLOUR	L. 15	L. 5	L. 2.5	L. 1
G1	2.250 ml	750 ml	375 ml	150 ml
G2	750 ml	250 ml	125 ml	50 ml
G3	186 ml	62 ml	31 ml	12.5 ml
G4	60 ml	20 ml	10 ml	4 ml

<b>TECHNICAL CHARACTERISTICS: PRODUCT</b>	
Composition	Acrylic copolymer in water emulsion, additives, mineral fillers and mother-of-pearl flakes.
Specific weight	1.10 ± 0.03 kg/litre
pH	>8.0 – 8.5 after 30 days
EU limit value (Directive 2004/42/EC) Cat. A/I: decorative effect coatings (water-borne): 200 g/l	Maximum VOC content 14.11 g/l
Storage conditions	Keep in tightly sealed container, even after use and after cleaning the sides and lid of the tin, in a cool, dry place at temperatures between +5°C and +30°C
Packaging	1 – 2.5 – 5 – 15 litres

Giorgio Graesan & Friends guarantees that the information in this sheet is provided to the best of its experience and its technical and scientific knowledge, however cannot assume any responsibility for the results obtained with their use as the conditions of application are beyond its control. We recommend always checking the actual suitability of the product for each specific case. This sheet nullifies and replaces any previous version. For more information, call phone number **(+39) 02.9903951** or on **Whatsapp: (+39) 3371410335**.

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## APPLICATION GUIDE

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GIOIA  
DECORATIVE PAINT

# GIOIA

Fully washable with not aggressive soaps.

Totally dry after 6 to 8 hours.

Conservation: in a dry, cool place, away from the frost and humidity.



Step 1 - Start applying Primus Sabbia



Step 2 - If necessary, prepare the shade with Gioia



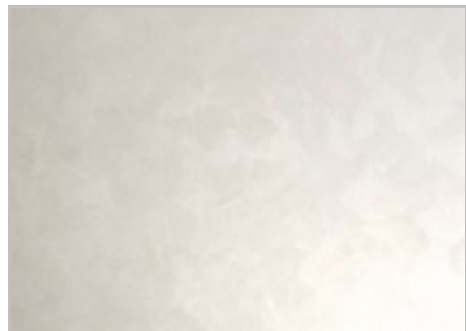
Step 3 - Mix the product until it's homogeneous



Step 4 - First coat



Step 5 - Second coat



Step 6 - Let the product dry

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# GIOIA

## Coverage

Packages	mq/lt	LT. 15	LT. 5	LT. 2,5	LT. 1
Gioia Art. 2000	7,5	115 mq	38 mq	19 mq	7,5 mq

## Formulae

Packages		LT. 15	LT. 5	LT. 2,5	LT. 1
Gioia Art. 2000	G1	2.250 ml	750 ml	375 ml	150 ml
	G2	750 ml	250 ml	125 ml	50 ml
	G3	186 ml	62 ml	31 ml	12,5 ml
	G4	60 ml	20 ml	10 ml	4 ml

Does not contains solvents - Not inflamable - Washable - Breaths

### Regulatory information

EU VOC limit for this product (cat.A/I): 200 g/l (2010)

Maximum VOC content 40 g/l

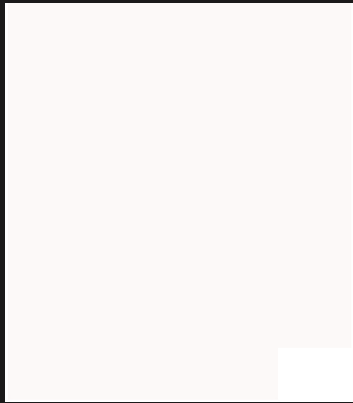
### Hazard Identification

EUH208: It Contains a mixture of: 5-chloro-2-methyl-2-hisothiazol-3-one, 2-methyl-2-hisothiazol-3-one.  
It may cause an allergic reaction.

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**SAFETY DATA SHEET**

**GIOIA**  
**DECORATIVE PAINT**

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## SECTION 1. Identification of the substance or mixture and of the company/enterprise

### 1.1. Product identifier

Code: **2000**  
Description: **GIOIA**

### 1.2. Relevant identified uses of the substance or mixture and uses not recommended

Relevant uses: **Pearlescent water-based decorative paint**

### 1.3. Safety datasheet supplier information

Company Name: **GIORGIO GRAESAN AND FRIENDS s.a.s.**  
Address: **Via BERGAMO 24  
20037 PADERNO DUGNANO  
ITALY  
Tel. 02/9903951  
Fax. 02/99039590**

the e-mail address of the competent person responsible for the safety datasheet is **tecnico@giorgiograesan.it**

### 1.4. Emergency telephone number

Phone number: **02/99039541 from Monday to Friday 8.30-12.30/14.00-18.00**

## SECTION 2. Hazard identification.

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

The product is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP). The product, however, containing dangerous substances in a concentration such as to be declared in section no.3, requires a safety datasheet with adequate information, in accordance with Regulation (EU) 2015/830.

### 2.2. Label elements according to Regulation no. 1272/2008.

Hazard labelling in accordance with Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Warning: --

Hazard pictogram: --

### Hazard indications:

**EUH210** Safety datasheet available on request.  
**EUH208** Contains: Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1).  
May cause an allergic reaction.

Precautionary statements: --

Safety datasheet available at: **www.giorgiograesan.it**

### 2.3. Other hazards.

The product does not meet the PTB/vPvB criteria

## SECTION 3. Composition/information on ingredients.

### 3.1 Substances

Not applicable

### 3.2 Mixtures

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#### Components

Identification	Chemical name	Classification (EC REGULATION NO. 1272/2008)	Conc. [%]
CAS no: 55965-84-9 CE: 220-239-6 Index: 613-167-00-5 Reach:	Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1).	3.2/1B Skin Corr. 1B H314 3.4.2/1A Skin Sens. 1A H317 4.1/A1 Aquatic Acute 1 H400 M=100. 4.1/C1 Aquatic Chronic 1 H410 M=10. 3.1/3/Oral Acute Tox. 3 H301 3.1/3/Dermal Acute Tox. 3 H311 3.1/1/Inhal Acute Tox. 1 H330	0 ≤ x < 0.0015

The full text of the hazard statements (H) is given in section 16 of the datasheet.

## SECTION 4. First aid measures.

### 4.1 Description of first aid measures:

Symptoms due to poisoning may appear after exposure, so if in doubt, seek medical advice following direct exposure to the chemical or persistent discomfort, showing the SDS of this product.

#### For inhalation:

Seek medical advice immediately. Take the person to fresh air, away from the scene of the accident. If breathing stops, perform artificial respiration. Take appropriate precautions for the rescuer.

**For skin contact:** remove contaminated clothing. Take a shower immediately and wash thoroughly with soap and water. Seek medical advice immediately.

#### For eye contact:

Remove any contact lenses. Wash immediately with plenty of water for at least 30/60 minutes, with eyelids open wide. Seek medical advice immediately.

#### For ingestion/aspiration:

Drink as much water as possible. Seek medical advice immediately. Do not induce vomiting unless expressly authorised by your doctor.

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

There is no known specific information regarding the symptoms and effects caused by the product.

### 4.3. Indication of any need for immediate medical attention and special treatments.

Information not available

## SECTION 5. Fire-fighting measures.

### 5.1. Extinguishing media.

Non-flammable product under normal conditions of storage, handling and use. In case of fire following handling, storage or improper use

SUITABLE EXTINGUISHING MEDIA: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING MEDIA: none in particular.

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

Avoid breathing in combustion products.

### 5.3. Recommendations for fire extinguishers.

#### GENERAL INFORMATION

Cool containers with water jets to prevent decomposition of the product and the development of substances that are potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water that must not be discharged into the sewers. Dispose of contaminated water used for extinguishing and fire residue according to current regulations. If feasible from a safety point of view, move undamaged containers away from the area of immediate danger.

#### EQUIPMENT

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame retardant overalls (EN469), flame retardant gloves (EN 659) and fire boots (HO A29 or A30).

## SECTION 6. Accidental release measures.

### 6.1. Personal precautions, protective equipment and procedures in case of emergency.

Wear personal protective equipment.

Move people to a safe place.

See the protective measures set out in sections 7 and 8.

### 6.2. Environmental precautions.

Prevent the product from entering sewers, surface water, groundwater. Retain contaminated washing water and dispose of it.

In the event of a gas leak or penetration into watercourses, soil or sewage system, inform the responsible authorities. Material suitable for collection: absorbent material, organic substances, sand.

### 6.3. Methods and materials for containment and cleansing.

Contain with earth or non-sparking inert material. Collect most of the material with recovery containers and proceed with disposal. Discard the residue with water jets if there are no contraindications. Provide sufficient ventilation of the site affected by the leak. Check for incompatibilities with the container material in Section 7. The disposal of contaminated material must be carried out in accordance with the provisions of section 13.

### 6.4. Reference to other sections.

Any information regarding personal protection and disposal is set out in sections 8 and 13.

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## SECTION 7. Handling and storage.

### 7.1. Precautions for safe handling.

Comply with the existing legislation on the prevention of risks at work.

Handle the product after consulting all other sections of this safety datasheet. Keep containers tightly closed and avoid dispersion of the product into the environment. Maintain order and cleanliness where dangerous products are handled.

Due to its flammability characteristics, the product does not present a risk of fire under normal conditions of storage, handling and use.

Do not eat, drink or smoke during handling and take care to wash with suitable products.

Absorbent material is recommended near the product.

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

Keep the product in clearly labelled containers. Store containers away from any incompatible materials, checking section 10.

Keep containers tightly closed, in suitable environments at +5°C to +30°C.

Avoid sources of heat, radiation, static electricity and contact with food.

### 7.3. Particular end uses.

Not available

## SECTION 8. Exposure control/personal protection.

### 8.1. Control parameters.

DNEL exposure limit values: not applicable

PNEC exposure limit values: not applicable


### 8.2 Exposure controls

Considering that the use of appropriate technical measures should always take precedence over personal protective equipment, ensure good ventilation in the workplace through effective local extraction.



When choosing personal protective equipment, consult your chemical suppliers if necessary.

Personal protective equipment must bear the EC marking attesting to its compliance with the regulations in force.

#### HAND PROTECTION



Pictogram	PPE	Marked	ECN standards	Remarks
 Mandatory hand protection	Protective gloves against minor risks	CE Cat.III		Replace gloves at first sign of deterioration. For periods of prolonged exposure to the product by professional/industrial users, the use of CE III gloves is recommended in accordance with EN 420 and EN 374.

#### SKIN PROTECTION

Pictogram	PPE	Marked	ECN standards	Remarks
	Work clothing			Replace at the first sign of deterioration. For periods of prolonged exposure by professional / industrial users, CE III is recommended, according to EN ISO 6529: 2001, EN ISO 6530: 2005, EN ISO 13688: 2013, EN 464: 1994
	Non-slip work shoes		EN ISO 20347:2012	Replace at the first sign of deterioration. For periods of prolonged exposure by professional / industrial users, CE III is recommended, according to EN ISO 20345 and EN 13832-1

Wash with soap and water after removing protective clothing.

#### EYE PROTECTION

Pictogram	PPE	Marked	ECN standards	Remarks
 Mandatory face protection	Full-vision safety goggles to protect against splashes and/or projections		EN 166:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use is recommended if there is a risk of splashing.

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#### Respiratory protection

If the limit value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is recommended to wear a type A filter mask whose class (1, 2 or 3) should be selected in relation to the limit concentration of use. (ref. EN 14387). If there are gases or vapours of a different nature and/or gases or vapours with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

The use of respiratory protective equipment is necessary if the technical measures taken are not sufficient to limit the worker's exposure to the limit values taken into account. However, the protection offered by masks is limited.

If the substance in question is odourless or its olfactory limit exceeds the relevant TLV-TWA and in case of an emergency, wear an open-circuit compressed air breathing apparatus (ref. EN 137) or fresh air breathing apparatus (ref. EN 138). Refer to EN 529 for the correct choice of respiratory equipment

#### Environmental exposure controls.

Emissions from production processes, including those from ventilation equipment, should be controlled to ensure compliance with the environmental protection legislation. It is advisable to avoid releasing the product and its containers into the environment.

## SECTION 9. Physical and chemical properties.

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

Physical state	Liquid
Colour	Not applicable
Odour	Not applicable
Olfactory threshold.	Not applicable.
pH.	8-9
Melting or freezing point.	Not applicable.
Initial boiling point.	Not applicable
Boiling range.	Not applicable.
Flash point.	>60°C
Evaporation rate	Not applicable.
Flammability of solids and gases	Non-flammable (water-based)
Lower flammability limit.	Not applicable
Upper flammability limit.	Not applicable
Lower explosive limit.	Not applicable
Upper explosive limit.	Not applicable
Vapour pressure.	Not applicable
Vapour Density	Not applicable
Relative density.	1.09 kg/litre
Solubility	Not applicable
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature.	Not applicable
Decomposition temperature.	
Viscosity	
Explosive properties	Not applicable
Oxidising properties	Not applicable

### 9.2. Other information.

Dry residue:	31.64%
VOC (Directive 2004/42/EC):	1.29% - 14.11 g/litre
VOC (volatile carbon):	<0.01% - 0.06 g/litre
Miscibility:	Not applicable
Liposolubility:	Not applicable
Conductivity:	Not applicable
Characteristic properties of groups of substances:	Not applicable

## SECTION 10. Stability and reactivity.

### 10.1. Reactivity.

No hazardous reaction if the following chemical storage technical instructions are respected, see section 7.

### 10.2. Chemical stability.

The product is stable under normal handling, use and storage conditions.

### 10.3. Possibility of dangerous reactions.

No dangerous reaction expected due to temperature and/or pressure variation.

### 10.4. Conditions to avoid.

Minimise exposure to air and moisture to avoid degradation.

### 10.5. Incompatible materials.

Information not available.

### 10.6. Hazardous decomposition products.

Information not available.

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## SECTION 11. Toxicological information.

In the absence of experimental toxicological data on the product itself, any hazards of the product to health have been assessed on the basis of the properties of the substances contained, according to the criteria laid down in the reference legislation for classification. Therefore, consider the concentration of the individual hazardous substances mentioned in section 3, if any, in order to assess the toxicological effects resulting from exposure to the product.

### 11.1 Information on toxicological effects:

**a) Acute toxicity:** Not classified No data available for the product.

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7]; 2-methyl-2H-isothiazol-3-one  
LD50 (Oral) 550 mg/kg

**b) Skin corrosion/irritation:** Not classified No data available for the product.

**c) serious eye damage/serious eye irritation** Not classified No data available for the product.

**d) respiratory or skin sensitisation:**

May cause an allergic reaction

Contains: Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7]; 2-methyl-2H-isothiazol-3-one (3:1)

**e) germ cell mutagenicity:** Not classified No data available for the product.

**f) carcinogenicity:** Not classified No data available for the product.

**g) reproductive toxicity:** Not classified No data available for the product.

**h) specific target organ toxicity (STOT) - single exposure:** Not classified No data available for the product.

**i) specific target organ toxicity (STOT) - repeated exposure:** Not classified No data available for the product.

**j) danger in case of aspiration:** Not classified No data available for the product.

Toxicological information concerning the main substances present in the product: No data available for the product.

### Other information:

Not applicable

## SECTION 12. Ecological information.

### 12.1 Toxicity

Use according to good working practices without releasing the product to the environment. Never release the product in the soil, sewers or waterways. Notify the competent authorities if the product reaches watercourses or sewers, or if it contaminates soil or vegetation. Take measures to minimise the effects on the groundwater.

Not classified for environmental hazards.

No data available for the product, refer to the components.

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute aquatic toxicity:

Test: EC50 - Species: Daphnia 0.1 mg/l - Duration h: 48 daphnia magna

Test: EC50 - Species: Algae 0.048 mg/l - Duration h: 72 pseudokirchneriella subcapitata

Test: EC50 - Species: Fish 0.22 mg/l - Duration h: 96 oncorhynchus mykiss

Test: NOEC - Species: Algae 0.00064 mg/l - Duration h: 48 skeletonema costatum

Test: NOEC - Species: Daphnia 0,004 mg/l - Duration h: 504 daphnia magna

Test: NOEC - Species: Fish 0,098 mg/l - Duration h: 672 oncorhynchus mykiss

Test: NOEC - Species: Algae 0.0012 mg/l - Duration h: 72 pseudokirchneriella subcapitata

### 12.2 Persistence and degradability:

Mixture of: 5- CHLORO-2-METHYL-4-ISOTHIAZOL-3-ONE;2METHYL-2H-ISOTHIAZOL-3-ONE (3:1) Readily degradable

### 12.3 Bioaccumulative potential:

Not available

### 12.4 Mobility in soil:

Not available

### 12.5 Results of PBT and vPvB assessment:

The product does not meet the PBT/vPvB criteria

### 12.6 Other adverse effects:

Not described

## SECTION 13. Disposal considerations.

### 13.1. Waste treatment methods.

Waste generation should be avoided or minimised where possible. Disposal of this product, solutions and any by-products must always be carried out in accordance with the environmental protection and waste disposal law and respecting the requirements of each relevant local authority. Disposal must be entrusted to a company authorised to manage waste, in compliance with national and possibly local legislation. Absolutely avoid dispersing the product in the soil, sewers or waterways.

Contaminated packaging must be sent for recovery or disposal in accordance with the national waste management rules. Care should be taken when handling empty containers that have not been cleaned or rinsed.

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#### SECTION 14. Transport information.

The product should not be considered dangerous under the provisions in force concerning the transportation of dangerous goods by road (A.D.R.), rail (RID), sea (IMDG Code) and air (IATA).

##### 14.1 UN Number

Unregulated

##### 14.2 UN proper shipping name

Unregulated

##### 14.3 Transport hazard classes

Unregulated

##### 14.4 Packing group

Unregulated

##### 14.5 Environmental hazards

Unregulated

##### 14.6 Special precautions for users

Unregulated

##### 14.7 Carriage of bulk according to Annex II of MARPOL 73/78 and IBC code

Unregulated

#### SECTION 15. Regulatory information.

##### 15.1 Specific health, safety and environmental laws and regulations for the substance or mixture:

Italian Legislative Decree no. 81 of 09/04/2008 Ministerial Decree of Labour 26/02/2004 (Occupational exposure limits)

Regulation (EC) no. 1907/2006 (REACH)

Regulation (EC) no. 1272/2008 (CLP)

Regulation (EC) no. 790/2009 (ATP 1 CLP) and (EU) No 758/2013

Regulation (EU) 2015/830 Regulation (EU) No 286/2011 (ATP 2 CLP)

Regulation (EU) no. 618/2012 (ATP 3 CLP)

Regulation (EU) no. 487/2013 (ATP 4 CLP)

Regulation (EU) no. 944/2013 (ATP 5 CLP)

Regulation (EU) no. 605/2014 (ATP 6 CLP)

Regulation (EU) no. 2015/1221 (ATP 7 CLP)

Regulation (EU) no. 2016/918 (ATP 8 CLP)

Regulation (EU) no. 2016/1179 (ATP 9 CLP)

Regulation (EU) no. 2017/776 (ATP 10 CLP)

Regulation (EU) no. 2018/699 (ATP 11 CLP)

Restrictions on the product or substances contained in accordance with Annex XVII to Regulation (EC) 1907/2006 (REACH) and subsequent adaptations:

Product restrictions: no restrictions.

Restrictions on contained substances: no restrictions.

Where applicable, refer to the following regulations:

Ministerial circulars 46 and 61 (Aromatic amines).

Directive 2012/18/EU (Seveso III)

Regulation 648/2004/EC (Detergents).

Italian Legislative Decree no. 152 of 03/04/2006 Environmental standards

Dir. 2004/42/EC (VOC Directive)

Provisions relating to EU Directive 2012/18 (Seveso III):

Category Seveso III according to Annex 1, Part 1: no restrictions.

##### 15.2. Chemical safety assessment.

No chemical safety assessment has been prepared for the mixture or for the substances contained therein.

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## SECTION 16. Other information.

This safety datasheet has been drawn up in accordance with Annex II-Guide for the development of Safety Datasheets of Regulation (EC) No. 1907/2006 (Regulation (EU) No. 2015/830).

Text of the sentences used in paragraph 3:

H330 Lethal if inhaled.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H400 Highly toxic to aquatic organisms.  
H410 Highly toxic to aquatic organisms with long-lasting effects.  
H301 Toxic if swallowed.  
H311 Toxic due to skin contact.

Hazard class and category	Code	Descriptions
Acute Tox. 1	3.1/1/Inhal	Acute toxicity (inhalation), Category 1
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Skin Corr. 1B	3.2/1B	Skin Corrosion, Category 1B
Skin Sens. 1A	3.4.2/1A	Skin sensitisation, Category 1A
Aquatic Acute 1	4.1/A1	Acute hazard to the aquatic environment, Category 1
Aquatic Chronic 1	4.1/C1	Chronic (long-term) danger to the aquatic environment, Category 1

This datasheet has been revised in all its sections in accordance with Regulation 2015/830.

This document has been prepared by an SDS technician who has received appropriate training.

Main bibliographical sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold  
CCNL - Annex 1  
Istituto Superiore di Sanità - National Inventory of Chemicals  
ECHA Agency WEBSITE

## LEGEND

ADR: European Agreement on the international carriage of dangerous goods by road.  
CAS No: Chemical Abstracts Service (American Chemical Society division).  
CLP: Classification, Labelling, Packaging.  
DNEL: Derived no effect level.  
EINECS: European inventory of existing European chemicals on the market.  
GefStoffVO: Ordinance on dangerous substances in Germany.  
GHS: Harmonised global classification and labelling system for chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation of the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organisation.  
ICAO-TI: Technical instructions of the International Civil Aviation Organisation (ICAO).  
IMDG: International Maritime Dangerous Goods Code.  
INCI: International nomenclature of cosmetic ingredients.  
KSt: Deflagration index.  
LC50: Lethal concentration for 50% of the test population.  
LD50: Lethal dose for 50% of the test population.  
PNEC: Predicted no effect concentration.  
RID: Regulation concerning the international carriage of dangerous goods by rail.  
ATE: Acute toxicity estimate



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ATEmix: Acute toxicity estimate (Mixtures)  
 STEL: Short-term exposure limit.  
 STOT: Specific target organ toxicity.  
 TLV: Threshold limit value.  
 TWA: Time-weighted average  
 WGK: Water hazard class (Germany).

#### GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and subsequent amendments
2. Directive 67/548/EEC and subsequent amendments
3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)
8. Regulation (EC) 618/2012 of the European Parliament (III Atp. CLP)
9. The Merck Index. Ed. 10
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
15. ECHA Agency Website

This datasheet cancels and replaces any previous edition.

#### Note to the user:

The information contained in this sheet is based on the knowledge available to us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document must not be construed as warranting any specific property of the product.

As use of the product does not fall under our direct control, it is the user's responsibility to comply with the laws and regulations in force regarding hygiene and safety. No responsibility is assumed for improper use.

Provide adequate training to personnel involved in the use of chemicals.