



ECOPURE

Code: 128\*\*\* , 12012083 , 12012084 , 12012085 , 12012087

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product description: ECOPURE  
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1.2 Intended uses: Ink-jet printing ink. Only for industrial use.

1.3 Company: CHIMIGRAF IBÉRICA, S.L.  
Polígono Can Jardí - c/Carcassi, 6-8 - 08191 - Rubí (Barcelona)  
Phone: +34 93 6977803 - Fax: +34 93 6978106 - e-mail: [uylab@chimigraf.com](mailto:uylab@chimigraf.com)

1.4 Emergency phone number: +34 93 6977803 (8:00-18:00 h.) (working hours)

## 2. HAZARDS IDENTIFICATION

2.1 EC classification:  
This product is not considered dangerous. in accordance with Directive 67/548/EEC~2004/73/EC and 1999/45/EC~2006/8/EC

2.2 Adverse effects: See section 11.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical description:  
Mixture of pigments, resins and additives in organic solvents.

3.2 Dangerous ingredients:  
Substances taking part in a percentage higher than the exemption limit:

10 < 25 % Butyrolactone  
   Xn:R22 | Xi:R36

EC 202-509-5  
CAS 96-48-0

Autoclassified

For more information, see sections 8, 11, 12 and 16.

## 4. FIRST AID MEASURES



When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

4.1 By inhalation:  
Should there be any symptoms, transfer the person affected to the open air.

4.2 By contact with the skin:  
Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.

4.3 By contact with eyes:  
Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.

4.4 By ingestion:  
If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.



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## 5. FIRE-FIGHTING MEASURES

### 5.1 Means of extinction:

Extinguishing powder or CO<sub>2</sub>. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet.

### 5.2 Specific risks:

As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, nitrogen oxides, halogenated compounds, hydrochloric acid. Exposure to combustion or decomposition products may be a hazard to health.

### 5.3 Fire-proof protective equipment:

Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.

### 5.4 Other recommendations:

Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions:

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. For exposure controls and personal protection measures, see section 8.

### 6.2 Environmental precautions:

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

### 6.3 Cleaning-up methods:

Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc.). Clean preferably with a biodegradable detergent. Avoid use of solvents. Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.



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## 7. HANDLING AND STORAGE

### 7.1 Handling precautions:

Comply with the existing legislation on health and safety at work.

- **General recommendations:** Avoid any type of leakage or escape. Keep the container tightly closed.
- **Recommendations for the prevention of fire and explosion risks:** Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.

- **Flash point** : 90. °C

- **Autoignition temperature** : 174. °C

- **Recommendations for the prevention of toxicological risks:** Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

### 7.2 Storage conditions:

Prevent unauthorized access. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. Keep container tightly closed. For more information, see section 10.1.

- **Class of store** : According to current legislation.

- **Maximum storage period** : 12. months

- **Temperature interval** : min: 5. °C, max: 45. °C

- **Incompatible materials:** Keep away from reducing agents, oxidizing agents, acids, alkalis.

- **Type of packaging:** According to current legislation.

- **Limit quantity, in accordance with Directive 96/82/EC~2003/105/EC (Seveso III):**

Not applicable.

### 7.3 Specific uses:

For the use of this product do not exist particular recommendations apart from that already indicated.



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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION 98/24/EC

### 8.1 Exposure Limit Values (TLV) AGCIH-2006:

Not available.

### 8.2 Occupational exposure controls, Directive 89/686/EEC:

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

#### - Protection of respiratory system:

Avoid the inhalation of vapours.

##### - Mask:

No, unless there is a probability of exposure over the Occupational Exposure Limit of the product.

#### - Protection of eyes and face:

Install emergency eye baths close to the working area.

##### - Goggles:

Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166).

##### - Face shield:

No.

#### - Protection of hands and skin:

Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

##### - Gloves:

Gloves resistant against chemicals (EN374). The breakthrough time of the selected glove material should be in accordance with the pretended period of use. The gloves should be immediately replaced when any sign of degradation is noted.

##### - Boots:

No.

##### - Apron:

No.

##### - Clothing:

Advisable.

### 8.3 Environmental exposure controls:

Avoid any spillage in the environment. Avoid any release into the atmosphere.





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## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state	:	Liquid.	
- Odour	:	Characteristic.	
- Boiling point	:	188.4 °C at 760 mmHg	
- Flash point	:	90. °C	
- Vapour pressure	:	0.53 mmHg at 20°C	
- Vapour pressure	:	0.43 kPa at 50°C	
- Solubility in water	:	Miscible. g/l at 20°C	
- Vapour density	:	3.79 Air = 1 at 20°C	Relative
- Decomposition temperature	:	360. °C	
- Solids	:	85. % Weight	
- VOC (supply)	:	15.0 % Weight	

For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

## 10. STABILITY AND REACTIVITY

### 10.1 Conditions to avoid:

Stable under recommended storage and handling conditions.

- **Heat:** Keep away from sources of heat.
- **Light:** If possible, avoid direct contact with sunlight.
- **Air:** Not applicable.
- **Humidity:** Avoid extreme humidity conditions.
- **Pressure:** Not applicable.
- **Shock:** Not applicable.

### 10.2 Materials to avoid:

Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis.

### 10.3 Thermal decomposition:

As consequence of thermal decomposition, hazardous products may be produced: nitrogen oxides, hydrochloric acid, halogenated compounds.

## 11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC.

### 11.1 Toxicological effects:

- Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Symptoms and signs include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea; other effects may be as described for exposure to vapours. Repeated or prolonged contact with the solvents of the preparation, may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashes in the eyes may cause irritation and reversible damage.

### 11.2 Dose and lethal concentrations for individual ingredients :

Butyrolactone

DL50 Oral  
mg/kg

1540. Rat

DL50 Cutaneous  
mg/kg

CL50 Inhalation  
mg/m<sup>3</sup>4hours



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## 12. ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC.

- 12.1 Ecotoxicity:**
- | for individual ingredients : | CL50<br>mg/l.96hours | CE50<br>mg/l.48hours | CE50<br>mg/l.72hours |
|------------------------------|----------------------|----------------------|----------------------|
| Butyrolactone                | 460. Fishes          | 500. Daphnia         | 360. Algae           |
- 12.2 Mobility:**  
Not available.
- **Spills on the soil:** Prevent contamination of soil.
  - **Spills in water:** Do not allow to escape into drains, sewers or water courses.
  - **Emissions to the atmosphere:** Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.
  - **VOC (industrial installations):**
    - It must be verified if it is applicable the Directive 1999/13/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents in certain activities and installations: Solvents : 95.6% Weight , VOC (supply) : 15.0% Weight , VOC : 46.2% C (expressed as carbon) , Molecular weight (average) : 754.4 , Number C atoms (average) : \*\*\*\*\*.
- 12.3 Persistence and degradability:**  
Not available.
- 12.4 Bioaccumulative potential:**  
Not available.
- 12.5 Results of PBT assesment:**  
Not available.
- 12.6 Other adverse effects:**  
Not available.

## 13. DISPOSAL CONSIDERATIONS

- 13.1 Handling of waste, Directive 75/442/EEC~91/156/EC:**  
Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.
- 13.2 Disposal of empty containers, Directive 94/62/EC:**  
Emptied containers and packaging should be disposed of in accordance with currently local and national regulations.
- 13.3 Procedures for neutralising or destroying the product:**  
Controlled incineration in special facilities for chemical waste, but in accordance with local regulations. Contains halogenated compounds: In the case of incineration, take all necessary measures in order to avoid production and emission of furanes and dioxines into the atmosphere above the legal limits allowed.



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#### 14. TRANSPORT INFORMATION

- 14.1 Transport by road, Directive 94/55/EC~2006/89/EC (ADR 2007):  
Transport by rail, Directive 96/49/EC (RID 2007): : Free
- 14.2 Transport by sea (IMDG 33-06): : Free
- 14.3 Transport by air (ICAO/IATA 2007): : Free

#### 15. REGULATORY INFORMATION

##### 15.1 EC Labelling:



This product does not require pictograms, in accordance with Directive 67/548/EEC~2004/73/EC and 1999/45/EC~2006/8/EC

- R-phrases: **None.**

- S-phrases:

- S7 Keep container tightly closed.  
S24/25 Avoid contact with skin and eyes.  
S51 Use only in well-ventilated areas.

- P-phrases:

- P101 Safety data sheet available for professional user on request.

- Dangerous ingredients: None.

##### 15.2 Restrictions to the marketing and use in accordance with Directive 76/769/EEC:

Not applicable.

##### 15.3 Other EC regulations:

Not applicable

##### 15.4 Other regulations:

Not available



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## 16. OTHER INFORMATION

### Text of R-phrases listed in sections 2 and 3:

R22 Harmful if swallowed. R36 Irritating to eyes.

### Material Safety Data Sheet regulations:

Material Safety Data Sheet in accordance with the Annex II of the Regulation (EC) No. 1907/2006 (REACH).

### Main data sources:

- European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc.ec.europa.eu/existing-chemicals/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).

### History:

Version: Provisional

### Date of issue:

31/08/2009

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.