



**Safety Data Sheet dated 16/1/2013, version 3**

## **1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY**

Trade name: GFRED

Product type and use: For electroplating industry

Company:

LEGOR GROUP S.p.A.  
Via del Lavoro, 1  
36050 Bressanvido (VI)  
Italy

Emergency telephone number of the company and/or of an authorised advisory centre:  
LEGOR GROUP S.p.A.  
tel. +39 0444 467911 fax +39 0444 660677

Centro Antiveleni  
Ospedale di Niguarda "Ca Grande"  
Piazza Ospedale Maggiore 3  
20162 Milano  
Telephone: +39 (0) 2/66 10 10 29  
Telefax: +39 (0) 2/64 44 27 68  
Italiano (French, English)  
(24-hour-service)

## **2. HAZARDS IDENTIFICATION**

The product is harmful following acute exposure to it and poses a serious health threat if inhaled, ingested, or brought into contact with the skin.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

3.23 % Potassium cyanide  
CAS: 151-50-8  
T+,N; R26/27/28-32-50/53

## **4. FIRST AID MEASURES**

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

In case of eyes contact:

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

Wash immediately with water for at least 10 minutes.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION

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IMMEDIATELY.

Give liquid paraffin to drink; do not give milk or animal or vegetable fats of any kind.

In case of Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

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### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

Avoid inhaling the fumes.

Protective equipment:

Use protection for the respiratory tract.

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### 6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

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### 7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Incompatible materials:

None in particular.

Storage conditions:

Always keep the containers tightly closed.

Instructions as regards storage premises:

Adequately ventilated premises.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use adequate protective respiratory equipment.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Eye protection:

Not needed for normal use.

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Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Exposure limit(s) (ACGIH):

None.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                            |                   |
|--------------------------------------------|-------------------|
| Appearance and colour:                     | Colourless liquid |
| Odour:                                     | Typical           |
| pH:                                        | 10-11             |
| Melting point / freezing point:            | n/a               |
| Initial boiling point and boiling range:   | n/a               |
| Flash point:                               | n/a °C            |
| Solid/gas flammability:                    | n/a               |
| Autoignition temperature:                  | n/a               |
| Explosive properties:                      | n/a               |
| Oxidizing properties:                      | n/a               |
| Vapour pressure:                           | n/a               |
| Relative density:                          | 1,05              |
| Solubility in water:                       | Total             |
| Partition c. (n-octanol/H <sub>2</sub> O): | n/a               |
| Vapour density:                            | n/a               |

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### 10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

None in particular.

Hazardous decomposition products:

None.

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### 11. TOXICOLOGICAL INFORMATION

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

No toxicological information is available on the substances. However, refer to Section 3.

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### 12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

List of substances dangerous for the environment and corresponding classification:

3.23 % Potassium cyanide

CAS: 151-50-8

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In

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so doing, comply with the local and national regulations currently in force.

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### 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

|                |                                  |
|----------------|----------------------------------|
| ADR-UN number: | Not dangerous                    |
| ADR-Class:     | Not dangerous for transportation |
| Rail (RID):    | Not dangerous for transportation |
| IATA-Class:    | Not dangerous for transportation |
| IMDG-Class:    | Not dangerous for transportation |

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### 15. REGULATORY INFORMATION

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE.

Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP) (Annex VI), Regulation (CE) n.790/2009.

Symbols:

Xn Harmful

R Phrases:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

S Phrases:

S36/37 Wear suitable protective clothing and gloves.

S7 Keep container tightly closed.

Contents:

Potassium cyanide

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.  
Regulation (EC) nr 648/2004 (detergents).

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### 16. OTHER INFORMATION

Main bibliographic 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

ACGIH - Threshold Limit Values - 2004 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

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