

Safety Data Sheet

GFBROWN-K

Safety Data Sheet dated 17/12/2012, version 5

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: GFBROWN-K
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
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Italiano (French, English)
(24-hour-service)

2. HAZARDS IDENTIFICATION

This product is a threat to the environment; it is harmful to aquatic organisms following acute exposure. In the long term this product may have negative effects on the aquatic environment, because it is not easily biodegradable and/or is bioaccumulable.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

80 % copper sulphate
Index number: 029-004-00-0, CAS: 7758-98-7, EC: 231-847-6
Xn,Xi,N; R22-36/38-50/53

20 % Potassium dicyanoaurate
CAS: 13967-50-5, EC: 237-748-4
T,Xi,N; R32-50-53-36/37/38-23/24/25

4. FIRST AID MEASURES

In case of skin contact:
Wash with plenty of water and soap.
In case of eyes contact:
Wash immediately with water for at least 10 minutes.
In case of Ingestion:

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Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.

A suspension of activated charcoal in water, or liquid paraffin may be administered.

In case of Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

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.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use 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:

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.

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:

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

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

Respiratory protection:

Not needed for normal use.

Protection for hands:

Not needed for normal use.

Eye protection:

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Not needed for normal use.
Protection for skin:
No special precaution must be adopted for normal use.
Exposure limit(s) (ACGIH):
None.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Colourless liquid
Odour:	Typical
pH:	4,5
Melting point / freezing point:	n/a
Initial boiling point and boiling range:	>100°C
Flash point:	>100 °C
Solid/gas flammability:	n/a
Autoignition temperature:	n/a
Explosive properties:	n/a
Oxidizing properties:	n/a
Vapour pressure:	17,5 mmHg a 20°C
Relative density:	1,01 g/cc a 20°C
Solubility in water:	Total
Partition c. (n-octanol/H ₂ O):	n/a
Vapour density:	n/a

10. STABILITY AND REACTIVITY

Conditions to avoid:
Stable under normal conditions.
Substances to avoid:
None in particular.
Hazardous decomposition products:
None.

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:

Potassium dicyanoaurate

No information is available on the product. Following data are referred to the decomposition product, hydrogen cyanide:

Inhalation toxicity: 200-400 mg/mc (ppm); if present in air for some minutes, they cause death.

Swallowing toxicity: not applicable.

Skin contact toxicity (Draize test): unknown reaction, possibly serious due to high reactivity of substance.

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:

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- 80 % copper sulphate
CAS: 7758-98-7
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 20 % Potassium dicyanoaurate
CAS: 13967-50-5
R50 Very toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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

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.

R Phrases:

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases:

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contents:

nickel sulfate: May produce an allergic reaction.

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).

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.