

Safety Data Sheet

GY2P

Safety Data Sheet dated 14/7/2011, version 3

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: GY2P
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
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Piazza Ospedale Maggiore 3
20162 Milano
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Italiano (French, English)
(24-hour-service)

2. HAZARDS IDENTIFICATION

The product liberates dangerous quantities of highly toxic gas if brought into contact with acids.
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 corresponding classification:

- 6 % Tripotassium ortophosphate
CAS: 22763-02-6 EC: 231-907-1
Xi; R36/38
- 2 % Potassium dicyanoaurate
CAS: 13967-50-5 EC: 237-748-4
T,Xi,N; R32-50-53-36/37/38-23/24/25
- 2 % Potassium carbonate
CAS: 584-08-7 EC: 209-529-3
Xn,Xi; R22-37/38

4. FIRST AID MEASURES

In case of skin contact:

AP032-43/3

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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:

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

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:

Keep away from acids.

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:

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Not needed for normal use.
Protection for hands:
Not needed for normal use.
Eye protection:
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:	Odourless
pH:	10
Melting point:	n.d.
Boiling point:	n.d.
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 g/ml
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:
It may generate flammable gases on contact with mineral acids, organic acids, elementary metals (alkalis and alkaline earth), and nitrides.
It may generate toxic gases on contact with mineral acids, organic acids, organic peroxides and hydroperoxides, and powerful oxidising agents.
It may catch fire on contact with powerful oxidising agents.

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.

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

Potassium carbonate

DL50, Oral, Rat: 1870 mg/kg.

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:

1% - 3% Potassium dicyanoaurate

CAS: 13967-50-5 EC: 237-748-4

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

15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Council Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparations) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH). Regulation (EC) No 1272/2008 (CLP) (Annex VI). Regulation (EC) No 790/2009 (Annex IV, Annex V).

R Phrases:

R32 Contact with acids liberates very toxic gas.

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.

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.

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This MSDS cancels and replaces any preceding release.
