1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: PD4-FE, palladium iron plating solution, 4g/l

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 Antiveneni
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

No specific hazards are encountered under normal product use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:
None.

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:
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

AP032-355/1
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:
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
Safety Data Sheet
PD4-FE, palladium iron plating solution, 4g/l

pH: 6.5
Melting point / freezing point: N.A.
Initial boiling point and boiling range: higher than 100°C
Flash point: N.A.
Solid/gas flammability: N.A.
Autoignition temperature: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.
Vapour pressure: N.A.
Relative density: N.A.
Solubility in water: Total
Partition c. (n-octanol/H2O): 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:
  No toxicological information is available on the substances. However, refer to Section 3.

12. ECOLOGICAL INFORMATION
  Adopt good working practices, so that the product is not released into the 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
  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
Safety Data Sheet
PD4-FE, palladium iron plating solution, 4g/l

The preparation should not be considered as dangerous accordingly to dir. 1999/45/EC.

Where applicable, refer to the following regulatory provisions:

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.