

Safety Data Sheet

RH2FM



Safety Data Sheet dated 12/11/2012, version 1

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: RH2FM

Product type and use: Aqueous preparation of rhodium (III) sulfate. 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
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Italiano (French, English)
(24-hour-service)

2. HAZARDS IDENTIFICATION

If brought into contact with the skin, the product causes appreciable inflammation, with erythema, scabs, and oedema.

If brought into contact with the eyes, the product causes serious eye injury, such as opacity of the cornea or lesions to the iris.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

8.96 % sulphuric acid ... %

Index number: 016-020-00-8, CAS: 7664-93-9, EC: 231-639-5
C; R35

2.72 % Rhodium (III) sulfate

CAS: 10489-46-0
C; R35

127 mg/kg potassium hydroxide; caustic potash

Index number: 019-002-00-8, CAS: 1310-58-3, EC: 215-181-3
Xn,C; R22-35

4. FIRST AID MEASURES

In case of skin contact:

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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:

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.

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

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

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 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.

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:

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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:

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

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

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

Exposure limit(s) (ACGIH):

sulphuric acid ... %

TLV TWA: 0,05 ppm, A2 - 0,2 mg/m³, A2 TLV STEL: A2

potassium hydroxide; caustic potash

TLV STEL: C 0,87 ppm - C 2 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Amber coloured liquid

Odour: Odourless

pH: ca 1

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

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: 1.03 g/ml

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:

Cyanides

Hazardous decomposition products:

None.

It may generate flammable gases on contact with dithiocarbamates, elementary metals, and nitrides.

It may generate toxic gases on contact with amides, aliphatic and aromatic amines, azo, diazo, and hydrazine compounds, carbamates, inorganic fluorides, halogenated organic substances, isocyanates, sulphides, organic nitrous compounds, organophosphat

It may catch fire on contact with alcohols and glycols, aldehydes, dithiocarbamates, esthers, ethers, aromatic and aliphatic hydrocarbons, halogenated organic substances, isocyanates, ketones, sulphides, organic nitrous compounds, phenols, and cresols.

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Contact with cyanides produces cyanidric acid (prussic acid)

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:

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Sulfuric acid:

Inhalation of concentrated vapours may cause damages to respiratory system;

Contact causes burns to skin and mucosa;

Contact causes severe burns to eyes.

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 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.

Symbols:

Xi Irritant

R Phrases:

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

S Phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 Wear suitable gloves and eye/face protection.

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

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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.
