

SAFETY DATA SHEET

PROTOPORPHYRIN IX - REAGENT 1

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product name: PROTOPORPHYRIN IX - Reagent 1

Ref: 3620

Intended use: reagent for in vitro diagnostic use.

Manufacturer: FAR S.r.l., via Fermi 12, Pescantina (VERONA) - ITALY

Emergency phone number: +39 045 6700870

2. COMPOSITION / INFORMATION ON INGREDIENTS

Dangerous substances according to the criteria defined in the directive 67/548/CEE and related updates : **ACETATE ETHYL 75% (p/p) // ACETIC ACID 23% (p/p)**

CAS: 141-78-6 // 64-19-7

CEE: 2055004 // 2005807

MF: CH₃COOC₂H₅ // CH₃COOH

3. HAZARDS INFORMATION

Precautions written in the instruction sheet::

Corrosive. Easily flammable.

4. FIRST AID MEASURES

Contact with skin: take contaminated clothes off and wash the affected skin area with water. Seek medical device.

Contact with eyes: wash immediately with plenty of water. Seek ophthalmologic device.

Ingestion: the patient should drink plenty of water to dilute gastric contents. Seek medical device.

Inhalation: move the patient away from the contaminated area, keep at rest in a well airy place. Seek medical device.

5. FIRE FIGHTING MEASURES

Extinguishing media recommended: spray water, carbon dioxide extinguisher, powder extinguisher, foam extinguisher.

Extinguishing media forbidden: none.

Combustion risk: the product releases toxic smokes.

Protection equipment: wear self-contained breathing apparatus and proper protective equipments.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: wear proper protective equipment: self-contained breathing apparatus, rubber gloves and boots.

Environment precautions: disposal with an authorized incinerator.

Cleaning procedure: contain and absorb the spilled liquid with some sand or other inert absorbent material. Store in a proper container. Air the room and wash the contaminated area with water. Vapours and smokes may cause explosive mixtures and toxic atmosphere.

7. HANDLING AND STORAGE

See section 8.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Handling precautions: avoid ingestion, contact and inhalation.

Storage conditions: store the product in a sealed container, away from heat and ignition sources. Store away from sun light.

Room conditions: rooms must be well airy and fresh.

Precautions: mask and safety protective eye-glasses.

Breathing protection: homologated respirator.

Hands protection: rubber gloves.

Eyes protection: safety eye-glasses.

Skin protection: visor, overall and boots.

Exposure limits of contained substances: 400 ppm // 10 ppm.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (form): liquid.

Color: colorless.

Smell: typical, pungent.

Ignition point: -.

Solubility: soluble in water and in alcohol.

10. STABILITY AND REACTIVITY

Conditions to avoid: avoid the contact with oxidizing substances.

Substances to avoid: strongly reacts with oxidizing substances. Not compatible with bases, acids, humidity and heat. Particularly dangerous the contact with chromic acid, nitric acid and sodium peroxide.

Decomposition hazards: release of toxic smokes from carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Penetration ways: ingestion, inhalation and contact.

Acute toxicity: oral DL50: 5620 mg/Kg (rat) // 3530 mg/Kg (rat).

Inhalation causes severe injuries to nose mucous membrane, throat and lungs with respiratory difficulties which may occur later. Ingestion of concentrated substance may cause severe injuries and death.

Chronic toxicity: prolonged and repeated expositions may cause skin darkness and irritation, erosion of tooth enamel, chronic inflammation to nose, throat and bronchous.

Corrosiveness / Irritability for eyes: in severe cases, irreversible lesions with sight loss.

Corrosiveness / Irritability for skin: it causes severe burns.

Sensitiveness: not available considerations.

Cancerogenesis: not available considerations.

Mutagenesis: not available considerations.

Teratogenesis: not available considerations.

12. ECOLOGICAL INFORMATION

Evaluation on eventual environmental effect: not available.

Further environmental data: see above.

13. DISPOSAL CONSIDERATIONS

Disposal method: by an authorized incinerator.

Disposal of contaminated container: by an authorized incinerator.

14. TRANSPORT INFORMATION

Road and train transportation: contact FAR for information.

Sea transportation: contact FAR for information.

Air transportation: contact FAR for information.

15. REGULATORY INFORMATION

Classification and label in accordance with European regulations.

Danger symbol: C - F.

Corrosive. Easily flammable.

Sentences R: 11 //10-35

Easily flammable. It causes severe burns. Flammable.

Sentences S: 16-23-29-33 // 23-26

Store away from flames and sparks. Do not smoke. Do not inhale vapours. Do not throw the remains in water drains. Avoid to accumulate electrostatic charges. Do not inhale vapours. In case of contact with eyes, wash immediately with plenty of water and seek medical device.

16. OTHER INFORMATION

The product is intended for in vitro diagnostic use only. The information herein contained are correct, but can not be considered exhaustive and have to be followed as purely indicative. FAR must not be considered responsible for any danger caused from the use or contact of the above product.

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SAFETY DATA SHEET

PROTOPORPHYRIN IX - REAGENT 2

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product name: PROTOPORPHYRIN IX - Reagent 2 Concentrated Standard 500 µg/100 ml

Ref: 3620

Intended use: reagent for in vitro diagnostic use.

Manufacturer: FAR S.r.l., via Fermi 12, Pescantina (VERONA) - ITALY

Emergency phone number: +39 045 6700870

2. COMPOSITION / INFORMATION ON INGREDIENTS

Dangerous substances according to the criteria defined in the directive 67/548/CEE and related updates : **HYDROCHLORIDRIC ACID 10% (p/p)**

CAS: 7647-01-0

CEE: 2315957

MF: HCl

3. HAZARDS INFORMATION

Precautions written in the instruction sheet:
Corrosive.

4. FIRST AID MEASURES

Contact with skin: take contaminated clothes off and wash the affected skin area with water. Seek medical device.

Contact with eyes: wash immediately with plenty of water. Seek ophthalmologic device.

Ingestion: the patient should drink plenty of water to dilute gastric contents. Do not induce vomit. Seek medical device.

Inhalation: move the patient away from the contaminated area, keep at rest in a well airy place. Seek medical device.

5. FIRE FIGHTING MEASURES

Extinguishing media recommended: water.

Extinguishing media forbidden: none.

Combustion risk: the product may violently react with combustible substances.

Protection equipment: wear self-contained breathing apparatus and proper protective equipments.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: wear proper protective equipment: self-contained breathing apparatus, rubber gloves and boots.

Environment precautions: disposal with an authorized incinerator.

Cleaning procedure: contain and absorb the spilled liquid with some sand or other inert absorbent material. Store in a proper container. Air the room and wash the contaminated area with water.

7. HANDLING AND STORAGE

See section 8.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Handling precautions: avoid ingestion, contact and inhalation.

Storage conditions: store the product in sealed containers, away from heat sources.

Room conditions: rooms must be well airy and fresh.

Precautions: mask and safety protective eye-glasses.

Breathing protection: homologated respirator.

Hands protection: rubber gloves.

Eyes protection: safety eye-glasses.

Skin protection: visor, overall and boots.

Exposure limits of contained substances: -.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (form): liquid.

Color: colorless.

Smell: typical.

Ignition point: -.

Solubility: soluble in water and in main organic solvents.

10. STABILITY AND REACTIVITY

Conditions to avoid: HCl contact, either gas or liquid, with some alkaline metals or active metals, may produce enough heat to cause fires in combustible near materials.

Substances to avoid: it reacts with some metals, liberating hydrogen. Hydrochloridric acid attacks some types of plastic, rubber and coatings.

Decomposition hazards: -.

11. TOXICOLOGICAL INFORMATION

Penetration ways: ingestion, inhalation.

Acute toxicity: oral DL50: 900 mg/Kg (rabbit).

For inhalation: back breastbone pain, cough, dyspnea, pneumonia, lung edema. For ingestion: oral tract pain, hematic vomit, metabolic acidosis, intestinal perforation.

Chronic toxicity: prolonged and repeated expositions may cause erosion of tooth enamel.

Corrosiveness / Irritability for eyes: strong caustic: in case of eye contact high irritations, conjunctivitis, corneal necrosis occur. In severe cases, irreversible lesions with sight loss.

Corrosiveness / Irritability for skin: strong caustic : injuries of variable seriousness depending on contact time. Concentrated solutions cause severe burns, diluted solutions and vapours may cause dermatitis.

Sensitiveness: not available considerations.

Cancerogenesis: not available considerations.

Mutagenesis: not available considerations.

Teratogenesis: not available considerations.

12. ECOLOGICAL INFORMATION

Evaluation on eventual environmental effect: not available.

Further environmental data: see above.

13. DISPOSAL CONSIDERATIONS

Disposal method: by an authorized incinerator.

Disposal of contaminated container: by an authorized incinerator.

14. TRANSPORT INFORMATION

Road and train transportation: RID/ADR: class 8.5°b.

Sea transportation: contact FAR for information.

Air transportation: contact FAR for information.

15. REGULATORY INFORMATION

Classification and label in accordance with European regulations.

Danger symbol: C.

Corrosive.

Sentences R: 34-37

It causes burns. Irritant for respiratory system.

Sentences S: 26-45

In case of contact with eyes, wash immediately with plenty of water and seek medical device. In case of accident or ailment, seek medical device immediately.

16. OTHER INFORMATION

The product is intended for in vitro diagnostic use only. The information herein contained are correct, but can not be considered exhaustive and have to be followed as purely indicative. FAR must not be considered responsible for any danger caused from the use or contact of the above product.

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SAFETY DATA SHEET

PROTOPORPHYRIN IX - REAGENT 3

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product name: PROTOPORPHYRIN IX - Reagent 3

Ref: 3620

Intended use: reagent for in vitro diagnostic use.

Manufacturer: FAR S.r.l., via Fermi 12, Pescantina (VERONA) - ITALY

Emergency phone number: +39 045 6700870

2. COMPOSITION / INFORMATION ON INGREDIENTS

Dangerous substances according to the criteria defined in the directive 67/548/CEE and related updates : **HYDROCHLORIDRIC ACID 5% (p/p)**

CAS: 7647-01-0

CEE: 2315957

MF: HCl

3. HAZARDS INFORMATION

Precautions written in the instruction sheet:
Corrosive.

4. FIRST AID MEASURES

Contact with skin: take contaminated clothes off and wash the affected skin area with water. Seek medical device.

Contact with eyes: wash immediately with plenty of water. Seek ophthalmologic device.

Ingestion: the patient should drink plenty of water to dilute gastric contents. Do not induce vomit. Seek medical device.

Inhalation: move the patient away from the contaminated area, keep at rest in a well airy place. Seek medical device.

5. FIRE FIGHTING MEASURES

Extinguishing media recommended: water.

Extinguishing media forbidden: none.

Combustion risk: the product may violently react with combustible substances.

Protection equipment: wear self-contained breathing apparatus and proper protective equipments.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: wear proper protective equipment: self-contained breathing apparatus, rubber gloves and boots.

Environment precautions: disposal with an authorized incinerator.

Cleaning procedure: contain and absorb the spilled liquid with some sand or other inert absorbent material. Store in a proper container. Air the room and wash the contaminated area with water.

7. HANDLING AND STORAGE

See section 8.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Handling precautions: avoid ingestion, contact and inhalation.

Storage conditions: store the product in sealed containers, away from heat sources.

Room conditions: rooms must be well airy and fresh.

Precautions: mask and safety protective eye-glasses.

Breathing protection: homologated respirator.

Hands protection: rubber gloves.

Eyes protection: safety eye-glasses.

Skin protection: visor, overall and boots.

Exposure limits of contained substances: -.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (form): liquid.

Color: colorless.

Smell: typical.

Ignition point: -.

Solubility: soluble in water and in main organic solvents.

10. STABILITY AND REACTIVITY

Conditions to avoid: HCl contact, either gas or liquid, with some alkaline metals or active metals, may produce enough heat to cause fires in combustible near materials.

Substances to avoid: it reacts with some metals, liberating hydrogen. Hydrochloridric acid attacks some types of plastic, rubber and coatings.

Decomposition hazards: -.

11. TOXICOLOGICAL INFORMATION

Penetration ways: ingestion, inhalation.

Acute toxicity: oral DL50: 900 mg/Kg (rabbit).

For inhalation: back breastbone pain, cough, dyspnea, pneumonia, lung edema. For ingestion: oral tract pain, hematic vomit, metabolic acidosis, intestinal perforation.

Chronic toxicity: prolonged and repeated expositions may cause erosion of tooth enamel.

Corrosiveness / Irritability for eyes: strong caustic: in case of eye contact high irritations, conjunctivitis, corneal necrosis occur. In severe cases, irreversible lesions with sight loss.

Corrosiveness / Irritability for skin: strong caustic : injuries of variable seriousness depending on contact time. Concentrated solutions cause severe burns, diluted solutions and vapours may cause dermatitis.

Sensitiveness: not available considerations.

Cancerogenesis: not available considerations.

Mutagenesis: not available considerations.

Teratogenesis: not available considerations.

12. ECOLOGICAL INFORMATION

Evaluation on eventual environmental effect: not available.

Further environmental data: see above.

13. DISPOSAL CONSIDERATIONS

Disposal method: by an authorized incinerator.

Disposal of contaminated container: by an authorized incinerator.

14. TRANSPORT INFORMATION

Road and train transportation: RID/ADR: class 8.5°b.

Sea transportation: contact FAR for information.

Air transportation: contact FAR for information.

15. REGULATORY INFORMATION

Classification and label in accordance with European regulations.

Danger symbol: C.

Corrosive.

Sentences R: 34-37

It causes burns. Irritant for respiratory system.

Sentences S: 26-45

In case of contact with eyes, wash immediately with plenty of water and seek medical device. In case of accident or ailment, seek medical device immediately. Follow all regulations in force.

16. OTHER INFORMATION

The product is intended for in vitro diagnostic use only. The information herein contained are correct, but can not be considered exhaustive and have to be followed as purely indicative. FAR must not be considered responsible for any danger caused from the use or contact of the above product.

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SAFETY DATA SHEET

PROTOPORPHYRIN IX - REAGENT 4

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product name: PROTOPORPHYRIN IX - Reagent 4
Ref: 3620
Intended use: reagent for in vitro diagnostic use.
Manufacturer: FAR S.r.l., via Fermi 12, Pescantina (VERONA) - ITALY
Emergency phone number: +39 045 6700870

2. COMPOSITION / INFORMATION ON INGREDIENTS

Dangerous substances according to the criteria defined in the directive 67/548/CEE and related updates : **HYDROCHLORIDRIC ACID 5% (p/p)**
// ACETATE ETHYL 20% (P/P)

CAS: 7647-01-0 // 141-78-6
CEE: 2315957 // 2055004
MF: HCl // CH₃COOC₂H₅

3. HAZARDS INFORMATION

Precautions written in the instruction sheet:
Corrosive. Easily flammable.

4. FIRST AID MEASURES

Contact with skin: take contaminated clothes off and wash the affected skin area with water. Seek medical device.
Contact with eyes: wash immediately with plenty of water for at least 15 minutes. Seek ophthalmologic device.
Ingestion: the patient should drink plenty of water to dilute gastric contents. Seek medical device.
Inhalation: move the patient away from the contaminated area, keep at rest in a well airy place. Seek medical device.

5. FIRE FIGHTING MEASURES

Extinguishing media recommended: spray water, carbon dioxide extinguisher, powder extinguisher, foam extinguisher.
Extinguishing media forbidden: none.
Combustion risk: it may release toxic smokes.
Protection equipment: wear self-contained breathing apparatus and proper protective equipments.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: wear proper protective equipment: self-contained breathing apparatus, rubber gloves and boots.
Environment precautions: disposal with an authorized incinerator.
Cleaning procedure: contain and absorb the spilled liquid with some sand or other inert absorbent material. Store in a proper container. Air the room and wash the contaminated area with water.

7. HANDLING AND STORAGE

See section 8.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Handling precautions: avoid ingestion, contact and inhalation.
Storage conditions: store the product in sealed containers, away from heat and ignition sources. Store away from sunlight.
Room conditions: rooms must be well airy and fresh.
Precautions: mask and safety protective eye-glasses.
Breathing protection: homologated respirator.
Hands protection: rubber gloves.
Eyes protection: safety eye-glasses.
Skin protection: visor, overall and boots.
Exposure limits of contained substances: 5 ppm - 400 ppm.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (form): liquid.
Color: colorless.

Smell: typical, pungent.

Ignition point: -.

Solubility: soluble in water and in alcohol.

10. STABILITY AND REACTIVITY

Conditions to avoid: HCl contact, either gas or liquid, with some alkaline metals or active metals, may produce enough heat to cause fires in combustible near materials.

Substances to avoid: it reacts with some metals, liberating hydrogen. Hydrochloridric acid attacks some types of plastic, rubber and coatings. It reacts with oxidizing substances.

Decomposition hazards: it releases toxic smokes of CO and CO₂.

11. TOXICOLOGICAL INFORMATION

Penetration ways: ingestion, inhalation, contact.
Acute toxicity: inhalation causes severe injuries to mucous membrane of nose, throat, lungs.
Chronic toxicity: -.
Corrosiveness / Irritability for eyes: in severe cases, irreversible lesions with sight loss.
Corrosiveness / Irritability for skin: it causes severe burns.
Sensitiveness: not available considerations.
Cancerogenesis: not available considerations.
Mutagenesis: not available mutagenesis considerations on laboratory assays.
Teratogenesis: not available considerations.

12. ECOLOGICAL INFORMATION

Evaluation on eventual environmental effect: not available.
Further environmental data: see above.

13. DISPOSAL CONSIDERATIONS

Disposal method: by an authorized incinerator.
Disposal of contaminated container: by an authorized incinerator.

14. TRANSPORT INFORMATION

Road and train transportation: contact FAR for information.
Sea transportation: contact FAR for information.
Air transportation: contact FAR for information.

15. REGULATORY INFORMATION

Classification and label in accordance with European regulations.
Danger symbol: C.
Corrosive.
Sentences R: 34-37 // 10-35
It causes severe burns. Irritant for respiratory system. Easily flammable.
Sentences S: 26 // 16-23-29-33
In case of contact with eyes, wash immediately with plenty of water and seek medical device. Store away from flames and sparks. Do not smoke. Do not throw residuals in water drains. Avoid to accumulate electrostatic charges. Follow all regulations in force.

16. OTHER INFORMATION

The product is intended for in vitro diagnostic use only. The information herein contained are correct, but can not be considered exhaustive and have to be followed as purely indicative. FAR must not be considered responsible for any danger caused from the use or contact of the above product.

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SAFETY DATA SHEET

PROTOPORPHYRIN IX - ADSORBENT

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product name: PROTOPORPHYRIN IX - Adsorbent

Ref: 3620

Intended use: reagent for in vitro diagnostic use.

Manufacturer: FAR S.r.l., via Fermi 12, Pescantina (VERONA) - ITALY

Emergency phone number: +39 045 6700870

2. COMPOSITION / INFORMATION ON INGREDIENTS

Dangerous substances according to criteria defined in directive 67/548/CEE and related updates : **the product doesn't contain any dangerous substance in considerable concentrations. The toxicological properties of this material have not been investigated. NOT DANGEROUS**

CAS: -

CEE: -

MF: -

3. HAZARDS INFORMATION

In accordance to European Directives 1999/45/CE, 2001/58/CE and 2001/59/CE, the product doesn't contain any dangerous substance in such concentrations to cause any risk or hazard to individuals and/or the environment. Follow normal precautions for chemical substances use.

4. FIRST AID MEASURES

Contact with skin: flush with water.

Contact with eyes: flush with water.

Ingestion: seek medical device.

Inhalation: not applicable.

5. FIRE FIGHTING MEASURES

Extinguishing media recommended: no restriction.

Extinguishing media forbidden: none.

Combustion risk: hazardous combustion gases do not break out in dangerous quantity.

Protection equipment: wear self-contained breathing apparatus and proper protective equipments.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: avoid substance contact.

Environment precautions: disposal with an authorized incinerator.

7. HANDLING AND STORAGE

Handling: no particular requirement.

Storage: 2-8°C.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Handling precautions: avoid ingestion, inhalation and contact.

Storage conditions: store the product at 2-8°C.

Breathing protection: not required.

Hands protection: rubber gloves.

Eyes protection: not required.

Exposure limits of contained substances: not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (form): liquid.

Color: hazelnut.

Smell: odorless.

Ignition point: -.

Fusion point: -.

Solubility in water: -.

10. STABILITY AND REACTIVITY

Conditions to avoid: none.

Substances to avoid: not available.

Decomposition hazards: -.

11. TOXICOLOGICAL INFORMATION

Penetration ways: ingestion, inhalation.

Acute toxicity: not available data.

Chronic toxicity: not available data.

12. ECOLOGICAL INFORMATION

Evaluation on eventual environmental effect: not hazardous.

Further environmental data: see above.

13. DISPOSAL CONSIDERATIONS

Disposal method: by an authorized incinerator.

Disposal of contaminated container: by an authorized incinerator.

14. TRANSPORT INFORMATION

Not subject to transport regulations for hazardous substances.

15. REGULATORY INFORMATION

Not required according to Directive 67/548/CE.

16. OTHER INFORMATION

The product is intended for in vitro use only. The information herein contained are correct, but can not be considered exhaustive and have to be followed as purely indicative. FAR must not be considered responsible for any danger caused from the use or contact of the above product.

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