

SAFETY DATA SHEET

AMMONIA - REAGENT 1

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product name: AMMONIA – REAGENT 1

Ref: 3606

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 of human origin.

4. FIRST AID MEASURES

Contact with skin: wash with water.

Contact with eyes: wash with water.

Ingestion: seek medical device.

Inhalation: not applicable.

5. FIRE FIGHTING MEASURES

Extinguishing media recommended: no restriction.

Extinguishing media forbidden: none.

Combustion risk: the product is not combustible.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: wear safety protective gloves and eye-glasses.

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.

7. HANDLING AND STORAGE

See section 8.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Handling precautions: avoid ingestion, inhalation and contact.

Storage conditions: store the product in sealed containers.

Room conditions: rooms must be well airy and fresh.

Precautions: safety protective mask and eye-glasses.

Breathing protection: not required.

Hands protection: rubber gloves.

Eyes protection: safety eye-glasses.

Skin protection: not required.

Exposure limits of contained substances: 2 ppm.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (form): liquid.

Color: colorless.

Smell: odorless.

Ignition point: not flammable.

Solubility: soluble in water, soluble in alcohol.

10. STABILITY AND REACTIVITY

Conditions to avoid: none.

Substances to avoid: not available.

Decomposition hazards: -.

11. TOXICOLOGICAL INFORMATION

Penetration ways: ingestion, inhalation, contact.

Acute toxicity:

oral DL50 : 500 mg/Kg (rabbit).

For ingestion: injuries to digestive system. The injury seriousness depends on the solution concentrations, contact time and temperature.

Chronic toxicity: chronic irritation of respiratory tract caused by prolonged fog inhalations.

Sensitiveness: not available considerations.

Carcinogenesis: 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: RID/ADR: class 4.2.6°b.

Sea transportation: contact FAR for information.

Air transportation: contact FAR for information.

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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Manufactured by: **FAR** srl

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SAFETY DATA SHEET

AMMONIA - REAGENT 2

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product name: AMMONIA – REAGENT 2
Ref: 3606
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 : **PHENOL 3% // NITROPRUSSIATE 2%**

CAS: 108-95-2 // 13755-38-9
CEE: 2036327 // 2383739
MF: C₆H₅OH // Na₂Fe(CN)₅NO₂H₂O

3. HAZARDS INFORMATION

Precautions written in the instruction sheet :
Toxic.

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 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, foam extinguisher, dry powder extinguisher, carbon dioxide extinguisher.
Extinguishing media forbidden: none.
Combustion risk: it releases toxic smokes of carbon monoxide and carbon dioxide.
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, safety eye-glasses.
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.

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 dry, fresh, aired room, away from heat sources and protected from direct sun light.
Room conditions: rooms must be well airy and fresh.
Precautions: anti-solvent 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (form): liquid.
Color: colorless.
Smell: typical, similar to tar.
Solubility: soluble in water, in alcohol.

10. STABILITY AND REACTIVITY

Conditions to avoid: -.
Substances to avoid: acids.
Decomposition hazards: release of toxic gases.

11. TOXICOLOGICAL INFORMATION

Penetration ways: ingestion, inhalation, contact.
Acute toxicity:
oral DL50 : 850 mg/Kg (rabbit).
Irritant for mucous membranes and skin. // The product has an action similar to nitrites, causing a fall of blood pressure. In the organism the product liberates cyanides.
Chronic toxicity: the absorption for accumulation may cause digestive problems, respiratory tract irritation and nervous problems.
Corrosiveness / Irritability for eyes: lesions and severe burns. // Irritation.
Corrosiveness / Irritability for skin: lesions and severe burns. // Irritation.
Sensitiveness: it may cause allergic eczemas appearance.
Carcinogenesis: 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: T.
Toxic.
Sentences R: 23/24/25-34 // 23/25
Toxic for skin contact for inhalation and ingestion. It causes burns.
Sentences S: 28-44
In case of contact with skin, wash immediately with plenty of warm water and soap until the smell disappears. In case of ailment, seek medical device.

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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SAFETY DATA SHEET

AMMONIA - REAGENT 3

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product name: AMMONIA – REAGENT 3

Ref: 3606

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 : **SODIUM HYPOCHLORITE 2.5% // SODIUM HYDRATE 25% (in not diluted reagent)**

CAS: 7681-52-9 // 1310-73-2

CEE: 2316683 // 2151855

MF: NaClO // NaOH

3. HAZARDS INFORMATION

Precautions written in the instruction sheet :
Irritant. Corrosive.

4. FIRST AID MEASURES

Contact with skin: take contaminated clothes off and wash the affected skin area with water for at least 15 minutes. Seek medical device.

Contact with eyes: wash immediately with plenty of water for 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: cool the containers exposed to fire by water spraying. As extinguisher media, use dry powder extinguisher.

Extinguishing media forbidden: none.

Combustion risk: it releases toxic smokes of carbon monoxide and carbon dioxide.

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, safety eye-glasses.

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.

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 and away from acids.

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: 2 ppm.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (form): liquid.

Color: colorless.

Smell: odorless.

Ignition point: not flammable.

Solubility: soluble in water, soluble in alcohol.

10. STABILITY AND REACTIVITY

Conditions to avoid: acids.

Substances to avoid: it can not stand aluminium, magnesium, copper. Not compatible with strong acids, amines and ammonia. // It strongly reacts with halogenated hydrocarbons.

Decomposition hazards: for decomposition it may release HCl gas.

11. TOXICOLOGICAL INFORMATION

Penetration ways: ingestion, inhalation, contact.

Acute toxicity:

oral DL50 : 500 mg/Kg (rabbit).

Caustic and corrosive action on oral and digestive system. The injury seriousness depends on solution concentrations, contact time and temperature.

Chronic toxicity: chronic irritation of respiratory tract caused by prolonged fog inhalations.

Corrosiveness / Irritability for eyes: lesions and severe burns.

Corrosiveness / Irritability for skin: lesions and 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: Xi - C.

Irritant. Corrosive.

Sentences R: 31-36/38-35

In contact with acids, it liberates toxic smokes. Irritant for skin and eyes. It causes severe burns.

Sentences S: 25 // 26-27-37/39

Avoid the contact with eyes. 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 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

AMMONIA - REAGENT 4

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product name: AMMONIA – REAGENT 4

Ref: 3606

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 of human origin.

4. FIRST AID MEASURES

Contact with skin: wash with water.

Contact with eyes: wash 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 the contact with the substance.

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: colorless.

Smell: odorless.

Ignition point: not applicable.

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 dangerous.

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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SAFETY DATA SHEET

AMMONIA - CHROMATOGRAPHIC COLUMNS

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product name: AMMONIA - Chromatographic columns

Ref: 3606

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 of human origin.

4. FIRST AID MEASURES

Contact with skin: wash with water.

Contact with eyes: wash with water.

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: not required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: avoid the contact with the substance.

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: not required.

Eyes protection: not required.

Exposure limits of contained substances: not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (form): solid + liquid.

Color: orange / colorless.

Smell: odorless.

Ignition point: not applicable.

10. STABILITY AND REACTIVITY

Conditions to avoid: none.

Substances to avoid: not available.

Decomposition hazards: plastic parts may give harmful decomposition products and gas. In case of fire use protective mask and filters.

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 dangerous.

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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