

## SAFETY DATA SHEET

# 17 – KETOSTEROIDS -REAGENT 1

### 1. PRODUCT AND COMPANY IDENTIFICATIONS

**Product name:** 17- KETOSTEROIDS - Reagent 1  
**Ref:** 3612

**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 : **HEXAMETHYLENTETRAMINE 9.8 % (p/p)**

**CAS:** 100-97-0

**CEE:** 2029058

**MF:** C<sub>6</sub>H<sub>12</sub>N<sub>4</sub>

### 3. HAZARDS INFORMATION

Precautions written in the instruction sheet:  
Harmful.

### 4. FIRST AID MEASURES

**Contact with skin:** take contaminated clothes off and wash the affected skin area with water.

**Contact with eyes:** wash immediately with plenty of water.

**Ingestion:** apply gastric lavage. 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, powder extinguisher, foam extinguisher, CO<sub>2</sub> extinguisher.

**Extinguishing media forbidden:** none.

**Combustion risk:** in case of fire it may release toxic smokes of CO<sub>2</sub>.

**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:** collect the leaked liquid in sealed containers. Contain and adsorb the leaked liquid with soil, sand or other inert adsorbent materials.

### 7. HANDLING AND STORAGE

See section 8.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Handling precautions:** avoid ingestion, contact and inhalation. Do not smoke.

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

**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:** -.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (form):** liquid.

**Color:** colorless.

**Smell:** typical.

**Ignition point:** -.

**Solubility:** soluble in water and in organic solvents.

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** keep away from acids and strongly oxidizing agents.

**Substances to avoid:** it reacts with acids to liberate formaldehyde.

**Decomposition hazards:** CO<sub>x</sub>, NO<sub>x</sub>.

### 11. TOXICOLOGICAL INFORMATION

**Penetration ways:** ingestion, inhalation, contact.

**Acute toxicity:**

oral DL50 like pure hexamethylenetetramine : 569 mg/Kg (rat).

The product irritates upper respiratory mucous membranes and tract, it may cause respiratory and skin allergic reactions.

**Chronic toxicity:** a prolonged or repeated contact may cause a sensitiveness which may cause hives or dermatitis. Previously sensitized subjects may suffer of asthmatic type events.

**Corrosiveness / Irritability for eyes:** irritant.

**Corrosiveness / Irritability for skin:** irritant effect.

**Sensitiveness:** for contact and inhalation.

**Cancerogenesis:** it may cause cancer.

**Mutagenesis:** it may cause genetic injuries.

**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:** X.

Harmful.

**Sentences R:** 11-42/43

Easily inflammable. It may cause a sensitiveness if inhaled or in contact with skin.

**Sentences S:** 16-22-24-37

Store away from flames and sparks. Do not smoke. Do not inhale powders. Avoid skin contact. Wear proper protective gloves.

### 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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Manufactured by: **FAR** srl

Via Fermi, 12 - 37026 Pescantina - VERONA - ITALY

Phone +39 045 6700870 – Fax +39 045 7157763

website: <http://www.farddiag.com> e-mail: [farddiag@farddiag.com](mailto:farddiag@farddiag.com)

## SAFETY DATA SHEET

# 17 – KETOSTEROIDS -REAGENT 2

### 1. PRODUCT AND COMPANY IDENTIFICATIONS

**Product name:** 17- KETOSTEROIDS - Reagent 2

**Ref:** 3612

**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 : **HYDRATED POTASSIUM 5% (p/p)**

**CAS:** 1310-58-3

**CEE:** 215-181-3

**MF:** KOH

### 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 for at least 15 minutes. Seek medical device.

**Contact with eyes:** wash immediately with plenty of water for at least 15 minutes. Seek ophthalmologist device.

**Ingestion:** flush the mouth with water. 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:** foam extinguisher.

**Extinguishing media forbidden:** none.

**Combustion risk:** the product is not combustive.

**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. Foresee emergency showers and eye washing small fountains.

**Environment precautions:** disposal with an authorized incinerator.

**Cleaning procedure:** contain and adsorb the leaked product with sand or other inert adsorbent materials. Store in a proper container.

### 7. HANDLING AND STORAGE

See section 8.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Handling precautions:** avoid ingestion, contact, inhalation.

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

**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 mg/ m<sup>3</sup>.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (form):** liquid.

**Color:** colorless.

**Smell:** odorless.

**Ignition point:** not inflammable.

**Solubility:** soluble in water and in alcohols.

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** -.

**Substances to avoid:** it reacts some metals like Zn, Al, Sn, Pb and light metal alloys, with hydrogen release. It violently reacts with acids. It reacts with halogenated hydrocarbons and forms explosive compounds.

**Decomposition hazards:** -.

### 11. TOXICOLOGICAL INFORMATION

**Penetration ways:** ingestion, inhalation, contact.

**Acute toxicity:**

oral DL50: 350 mg/Kg (rat).

The ingestion may cause strong pain to throat and epigastrium, hematic vomit, collapse. The esophagus compulsion may lead to death, even if not immediately.

**Chronic toxicity:** aerosol inhalation may cause upper respiratory tract and sometimes / lung injuries of variable seriousness.

**Corrosiveness / Irritability for eyes:** conjunctival and corneal injuries with redness, pain, corrosive effect with scars, which may compromise sight functions.

**Corrosiveness / Irritability for skin:** burns with deep ulcerations of seriousness depending on contact temperature and time.

**Sensitiveness:** not available considerations.

**Cancerogenesis:** not available considerations.

**Mutagenesis:** not available mutagenic 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, after acid neutralization.

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

### 14. TRANSPORT INFORMATION

**Road and train transportation:** RID/ADR: class 8.42<sup>b</sup>.

**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:** X.

Harmful.

**Sentences R:** 35

It causes severe burns.

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

In case of contact with eyes, flush immediately with plenty of water and seek medical device. Take contaminated clothes off immediately. Wear proper protective gloves and protect eyes and face.

### 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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Via Fermi, 12 - 37026 Pescantina - VERONA - ITALY

Phone +39 045 6700870 - Fax +39 045 7157763

website: <http://www.farddiag.com> e-mail: [farddiag@farddiag.com](mailto:farddiag@farddiag.com)

## SAFETY DATA SHEET

# 17 – KETOSTEROIDS -REAGENT 3

### 1. PRODUCT AND COMPANY IDENTIFICATIONS

**Product name:** 17- KETOSTEROIDS - Reagent 3  
**Ref:** 3612

**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 : **ETHYLIC ALCOHOL 99.8% (p/p)**

**CAS:** 64-17-5

**CEE:** 2005786

**MF:** C<sub>2</sub>H<sub>5</sub>OH

### 3. HAZARDS INFORMATION

Precautions written in the instruction sheet:  
Inflammable.

### 4. FIRST AID MEASURES

**Contact with skin:** take contaminated clothes off and wash the affected skin area with water.

**Contact with eyes:** wash immediately with plenty of water.

**Ingestion:** apply gastric lavage and then saline purification. 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, powder extinguisher, alcohol-proof foam extinguisher, CO<sub>2</sub> extinguisher.

**Extinguishing media forbidden:** none.

**Combustion risk:** the product releases toxic smokes of CO and CO<sub>2</sub>.

**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:** collect the leaked liquid in sealed containers. Contain and adsorb the leaked liquid with soil, sand or other inert adsorbent materials. Keep away from ignition sources.

### 7. HANDLING AND STORAGE

See section 8.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Handling precautions:** avoid ingestion, inhalation.

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

**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:** 1000 ppm.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (form):** liquid.

**Color:** colorless.

**Smell:** typical.

**Ignition point:** 12°C.

**Fusion point:** -114.1°C.

**Boiling point:** 78.5°C.

**Solubility:** soluble in water and in organic solvents.

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** contact with heat sources.

**Substances to avoid:** it reacts with alkaline metals and release hydrogen, highly inflammable gas.

**Decomposition hazards:** thermal decomposition may release toxic smokes of CO<sub>2</sub> and CO.

### 11. TOXICOLOGICAL INFORMATION

**Penetration ways:** ingestion, inhalation.

**Acute toxicity:**

oral DL50: 7060 mg/Kg (rat).

In man for exposures to high vapour concentrations: light irritation to nose and eyes, heat sensation, loquacity, headache, sight problems, nausea, vomit, dizziness, sleepiness, soporific state.

**Chronic toxicity:** irritation to mucous membranes and upper respiratory tract, headache, nervousness, dizziness, tremors, tiredness, nausea, effects on concentration and care capacities, optical nerve alterations.

**Corrosiveness / Irritability for eyes:** for high vapour concentrations: conjunctival irritation.

**Corrosiveness / Irritability for skin:** for repeated contact: lightly considerable irritant effect.

**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 3,3<sup>b</sup>.

**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:** F.

Inflammable.

**Sentences R:** 11

Lightly flammable.

**Sentences S:** 7-16

Store in a sealed container. Keep away from flames and sparks. Do not smoke.

### 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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Manufactured by: **FAR** srl

Via Fermi, 12 - 37026 Pescantina - VERONA - ITALY

Phone +39 045 6700870 - Fax +39 045 7157763

website: <http://www.farddiag.com> e-mail: [farddiag@farddiag.com](mailto:farddiag@farddiag.com)

## SAFETY DATA SHEET

# 17 – KETOSTEROIDS -REAGENT 4

### 1. PRODUCT AND COMPANY IDENTIFICATIONS

**Product name:** 17- KETOSTEROIDS - Reagent 4  
**Ref:** 3612

**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 : **M-DINITROBENZENE 99% (p/p)**

**CAS:** 99-65-0

**CEE:** 2084318

**MF:** C<sub>6</sub>H<sub>4</sub>N<sub>2</sub>O<sub>4</sub>

### 3. HAZARDS INFORMATION

Precautions written in the instruction sheet:  
Highly toxic.

### 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:** flush the mouth with water. 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, powder extinguisher, alcohol-proof foam extinguisher, CO<sub>2</sub> extinguisher.

**Extinguishing media forbidden:** none.

**Combustion risk:** the product may explode if heated. It releases toxic smokes in case of fire.

**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:** clean, collect in a bag and store until disposal. Avoid to raise powders. Air the room and wash the contaminated area by the leaked product, after collection.

### 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, away from heat sources.

**Room conditions:** rooms must be well airy and fresh. Keep hermetically sealed.

**Precautions:** mask and safety protective eye-glasses.

**Breathing protection:** homologated respirator. Use only under cowl.

**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):** solid.

**Color:** yellow-orange.

**Smell:** odorless.

**Ignition point:** not inflammable.

**Solubility:** soluble in water and in organic solvents.

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** the product may result bumps sensitive.

**Substances to avoid:** oxidizing agents, reducing agents and strong bases.

**Decomposition hazards:** thermal decomposition may release CO<sub>2</sub>, CO<sub>x</sub> and CO.

### 11. TOXICOLOGICAL INFORMATION

**Penetration ways:** ingestion, inhalation and contact.

**Acute toxicity:**

oral DL50: 28 mg/Kg (man).

In may be mortal if inhaled, ingested or adsorbed by the skin. It may cause irritation. The body adsorption may cause the formation of methemoglobin, which causes cyanosis in high concentrations. The cyanotic effect may occur 2-4 hours later or more, with reference to the exposure. Exposure symptoms may include burning sensations, cough, laryngitis, cephalaea, nausea and vomit.

**Chronic toxicity:** mutagenic effects. It may cause problems to the reproductive system.

**Corrosiveness / Irritability for eyes:** -.

**Corrosiveness / Irritability for skin:** -.

**Sensitiveness:** not available considerations.

**Cancerogenesis:** not available considerations.

**Mutagenesis:** it causes mutagenic effects.

**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:** X.

Highly toxic.

**Sentences R:** 26/27/28-33-40

Highly toxic for inhalation, skin contact and ingestion. Danger for cumulative effects. Possible irreversible effects.

**Sentences S:** 28-36/37-45

In case of skin contact, wash immediately with plenty of water and seek medical device. Wear proper protective equipment.

### 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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Manufactured by: **FAR** srl

Via Fermi, 12 - 37026 Pescantina - VERONA - ITALY

Phone +39 045 6700870 - Fax +39 045 7157763

website: <http://www.farddiag.com> e-mail: [farddiag@farddiag.com](mailto:farddiag@farddiag.com)

## SAFETY DATA SHEET

# 17 – KETOSTEROIDS -REAGENT 5

### 1. PRODUCT AND COMPANY IDENTIFICATIONS

**Product name:** 17- KETOSTEROIDS - Reagent 5  
**Ref:** 3612

**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 : **HYDRATED POTASSIUM 38% (p/p)**

**CAS:** 1310-58-3

**CEE:** 215-181-3

**MF:** KOH

### 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 for at least 15 minutes. Seek medical device.

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

**Ingestion:** flush the mouth with water. 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:** foam extinguisher.

**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 proper protective equipment: self-contained breathing apparatus, rubber gloves and boots.

**Environment precautions:** disposal with an authorized incinerator.

**Cleaning procedure:** collect the leaked liquid in sealed containers. Contain and adsorb the leaked liquid with soil, sand or other inert adsorbent materials.

### 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, away from heat sources. Keep away from acids and oxidizing agents.

**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:** 2 mg/ m<sup>3</sup>.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (form):** liquid.

**Color:** colorless.

**Smell:** odorless.

**Ignition point:** -.

**Solubility:** soluble in water and in organic solvents.

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** oxidizing agents, acids.

**Substances to avoid:** it reacts some metals like Zn, Al, Sn, Pb and light metal alloys, with hydrogen release. It violently reacts with acids. It reacts with halogenated hydrocarbons and forms explosive compounds.

**Decomposition hazards:** -.

### 11. TOXICOLOGICAL INFORMATION

**Penetration ways:** ingestion, inhalation, contact.

**Acute toxicity:**

oral DL50: 365 mg/Kg (rat).

The ingestion may cause strong pain to throat and epigastrium, hematic vomit, collapse. The esophagus compulsion may lead to death, even if not immediately.

**Chronic toxicity:** aerosol inhalation may cause upper respiratory tract and sometimes to lung injuries of variable seriousness.

**Corrosiveness / Irritability for eyes:** conjunctival and corneal injuries with redness, pain, corrosive effect with scars, which may compromise sight functions.

**Corrosiveness / Irritability for skin:** burns with deep ulcerations of seriousness depending on contact temperature and time.

**Sensitiveness:** for contact and inhalation.

**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.

Corrosive.

**Sentences R:** 35

It causes severe burns.

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

In case of contact with eyes, flush immediately with plenty of water and seek medical device. Take contaminated clothes off immediately. Wear proper protective gloves and protect eyes and face.

### 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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Phone +39 045 6700870 - Fax +39 045 7157763

website: <http://www.farddiag.com> e-mail: [farddiag@farddiag.com](mailto:farddiag@farddiag.com)

## SAFETY DATA SHEET

# 17 – KETOSTEROIDS -REAGENT 6

### 1. PRODUCT AND COMPANY IDENTIFICATIONS

**Product name:** 17- KETOSTEROIDS - Reagent 6

**Ref:** 3612

**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 : **DICHLOROMETHANE 95% (p/p)**

**CAS:** 75-09-2

**CEE:** 2008389

**MF:** CH<sub>2</sub>Cl<sub>2</sub>

### 3. HAZARDS INFORMATION

Precautions written in the instruction sheet:

Harmful.

### 4. FIRST AID MEASURES

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

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

**Ingestion:** if the patient is conscious, induce vomit by putting fingers (previously washed) in his throat.

**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.

**Extinguishing media forbidden:** none.

**Combustion risk:** the product releases toxic smokes of phosgene and hydrochloric acid.

**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:** collect the leaked liquid in sealed containers. Contain and adsorb the leaked liquid with soil, sand or other inert adsorbent materials. Vapours spread on the ground and may cause explosion and intoxication risks in basements or ditches.

### 7. HANDLING AND STORAGE

See section 8.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Handling precautions:** avoid ingestion, 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:** 50 ppm.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (form):** liquid.

**Color:** colorless.

**Smell:** typical.

**Ignition point:** not inflammable.

**Solubility:** soluble in water 2% and in organic solvents.

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** contact with alkaline metals.

**Substances to avoid:** it strongly reacts with aluminium and finely scattered alkaline metals.

**Decomposition hazards:** thermal decomposition may releases toxic smokes of phosgene and hydrochloric acid.

### 11. TOXICOLOGICAL INFORMATION

**Penetration ways:** ingestion, inhalation.

**Acute toxicity:**

oral DL50: 2136 mg/Kg (rat).

In man for exposures to high vapour concentrations: effects on central nervous system with cephalaea, dizziness, trend to lose consciousness; limb paresthesia. Carboxyhemoglobin may occur.

**Chronic toxicity:** cephalaea, neuroasthenia, encephalopathies, neuritis, palpitations, dispnea, precordial pain, myalgies.

**Corrosiveness / Irritability for eyes:** strong irritant effect and conjunctivitis.

**Corrosiveness / Irritability for skin:** irritation.

**Sensitiveness:** not available considerations.

**Cancerogenesis:** not available considerations.

**Mutagenesis:** active on some in vitro bacterial systems.

**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 6.1, 61°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:** X.

Harmful.

**Sentences R:** 40

Possible irreversible effects.

**Sentences S:** 23-24/25-36/37

Do not inhale vapours. Avoid skin and eyes contact. Wear proper protective gloves and equipment.

### 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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Manufactured by: **FAR** srl

Via Fermi, 12 - 37026 Pescantina - VERONA - ITALY

Phone +39 045 6700870 - Fax +39 045 7157763

website: <http://www.farddiag.com> e-mail: [farddiag@farddiag.com](mailto:farddiag@farddiag.com)

## SAFETY DATA SHEET

# 17 – KETOSTEROIDS - STANDARD

### 1. PRODUCT AND COMPANY IDENTIFICATIONS

**Product name:** 17- KETOSTEROIDS - Standard  
**Ref:** 3612

**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 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:** not required.

**Eyes protection:** not required.

**Exposure limits of contained substances:** not available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (form):** solid + liquid.

**Color:** white.

**Smell:** odorless.

**Ignition point:** not applicable.

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** none.

**Substances to avoid:** not available.

**Decomposition hazards:** plastic parts may generate harmful decomposition products and gas. In case of fire, use safety 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.

### 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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Manufactured by: **FAR** srl

Via Fermi, 12 - 37026 Pescantina - VERONA - ITALY

Phone +39 045 6700870 - Fax +39 045 7157763

website: <http://www.farddiag.com> e-mail: [farddiag@farddiag.com](mailto:farddiag@farddiag.com)

## SAFETY DATA SHEET

# 17 – KETOSTEROIDS - CHROMATOGRAPHIC COLUMNS

### 1. PRODUCT AND COMPANY IDENTIFICATIONS

**Product name:** 17- KETOSTEROIDS - Chromatographic columns  
**Ref:** 3612

**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 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:** not required.

**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.

### 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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Via Fermi, 12 - 37026 Pescantina - VERONA - ITALY

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website: <http://www.fardiag.com> e-mail: [fardiag@fardiag.com](mailto:fardiag@fardiag.com)