

SAFETY DATA SHEET

According to Regulation 1907/2006/EC and EG Nr. 1272/2008

Testosterone**1 Identification of the substance/preparation and of the company/undertaking**

VERSION: 06 – 03.01.2011

1.1	Commercial product name:	Testosterone
1.2	Synonymous:	No data available
1.3	REACH Registration number:	01-2119455539-27-0000
1.4	Use:	Active ingredient
1.5	Product code:	8248
1.6	Company:	Productos Químicos Naturales S.A. de C.V. Calzada Ojo de Agua s/n 94450 Ixtaczoquitlán, Ver. México Phone 52(272) 72 8 1100; 72 8 1300
1.7	Emergency phone number:	PROQUINA SAFETY DEPARTMENT Phone 52(272) 72 8 1193; 72 8 1310

2 Hazards identification**GHS-Classification:**

Acute toxicity, oral, Category 4 (H302)
Carcinogenicity, Category 2 (H351)
Reproductive toxicity, Category 1A (H360FD)
Effects on or via lactation (H362)
Acute aquatic toxicity, Category 1 (H400)

GHS-Labeling:

Danger

Hazard statements:

H302 Harmful if swallowed.
H351 Suspected of causing cancer.
H360FD May damage fertility. May damage the unborn child.
H362 May cause harm to breast-fed children.
H400 Very toxic to aquatic life.

Precautionary statements:

Prevention:

P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P260 Do not breathe dust or mist.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P330 Rinse mouth.

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Classification (67/548/EEC, 1999/45/EC)
Harmful

Potential adverse human health hazards

Carcinogenic Category 3
Toxic to Reproduction Category 1
Toxic to Reproduction Category 2
Harmful if swallowed.
Limited evidence of a carcinogenic effect.
May impair fertility.
May cause harm to the unborn child.
May cause harm to breastfed babies.
Long Term Exposure 0,077 mg/m³

3 Composition/Information on ingredients.**Hazardous components**

Testosterone
Concentration [Weight percent] <= 100
CAS-No.: 58-22-0
EINECS-No.: 200-370-5
EU Classification: Xn, R22 Carc.Cat.3, R40 N, R50 Repr.Cat.1, R60 Repr.Cat.2, R61 R64
GHS Classification: Acute Tox. 4 H302 Carc. 2 H351 Repr. 1A H360FD Lact. H362 Aquatic
Acute 1 H400
For the full text of the H+R-phrases mentioned in this Section, see Section 16.

4 First-aid measures**General advice:**

Take off contaminated clothing and shoes immediately.
Call a physician immediately.

If inhaled:

Remove to fresh air.
If symptoms persist, call a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of soap and water.
Do NOT use solvents or thinners.

In case of eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If swallowed:

Rinse mouth with water.

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Testosterone

5 Fire-fighting measures**Suitable extinguishing media:**

Water spray jet,
Foam,
Dry powder,
Carbon dioxide (CO₂)

Unsuitable extinguishing media:

High volume water jet

Specific hazards during fire fighting:

Fire may cause evolution of: Carbon dioxide (CO₂) Carbon Monoxide

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus.

Further information:

Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures**Personal precautions:**

Use personal protective equipment.

Environmental precautions:

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up:

Avoid dust formation.
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Additional advice: Avoid dust formation.

7 Handling and storage**Handling:**

Avoid contact with skin, eyes and clothing.
Measures must be taken to prevent dust explosion when processing in fine crystalline form.
Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

Storage:

Keep away from water ! Protect against light. Use hermetically sealed packaging.

Storage class in accordance to VCI's Guide (May 2007): 6.1AS

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Testosterone**8 Exposure controls/personal protection**

Components with workplace control parameters

Substance	CAS-No.	Basis	Type:	Value	Ceiling Limit Value	Remarks
Testosterone	58-22-0		OEL*	0,077 mg/m3		

*OEL(BHC)=Occupational Exposure Limit, company threshold limit value (TLV)s

Respiratory protection:

Recommended respiratory protection: full mask with filter P3

Hand protection:

During the handling of the substance according to the intended use protection gloves from nitrile rubber have been proved.

Eye protection:

Safety glasses with side-shields

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures:

Wash hands and face before breaks and immediately after handling the product. Use protective skin cream before handling the product.

Other protective measures:

Wear suitable protective equipment.

9 Physical and chemical properties

Form:	solid, crystalline
Colour:	off-white
Odour:	odourless
Melting point/range:	153 - 157 °C
Density:	no data available
Bulk density:	no data available
Vapour pressure:	< 1 mPa at 25 °C
Water solubility:	0,024 g/l at 20 °C
pH:	no data available
Partition coefficient	

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Testosterone

(n-octanol/water): log Pow: 2,84
OECD 117
Solubility in organic solvents: in Acetone 59 g/l at 20 °C
in Ethanol 157 g/l at 20 °C
Ignition temperature: no data available

10 Stability and Reactivity.**Conditions to avoid:**

no data available

Materials to avoid:

no data available

Hazardous reactions:

Risk of dust explosion in fine crystalline powder form.

Hazardous decomposition products:Carbon monoxide, Carbon dioxide (CO₂)**Minimum ignition energy:**

no data available

11 Toxicological information.**Acute oral toxicity:**LD₅₀ rat : 1.000 mg/kg

Test substance: data based on the propionate

Acute toxicity (other routes of administration):LD₅₀ intramuscular rabbit: > 250 mg/kg

Test substance: data based on the enantate

LDL₀ intraperitoneal rat: 326 mg/kgTDL₀ subcutaneous rabbit: 30 mg/kg**Skin irritation:**

Result: No skin irritation

Pharmaceutic effects:

Steroid hormone

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Testosterone

12 Ecological information.**General advice:**

Do not allow to enter surface waters or groundwater.

Toxicity to daphnia and other aquatic invertebrates:

EC50 > 20,4 mg/l

Test species: Daphnia Duration of test: 48 h

Toxicity to algae:

EC50 0,5 mg/l

tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Biodegradability:

89 %, 28 d Readily biodegradable.

13 Disposal consideration.

Transport to suitable incinerator with reduced non-air emission.

Contaminated, empty containers are to be treated in the same way as the contents.

14 Transport information**ADR/RID**

UN Number : 3077

Description of the goods: Environmentally hazardous substance, solid, n.o.s.
(TESTOSTERONE)

Packaging group : III

Hazard identification No : 90

Dangerous goods labels : 9

GGVS/GGVE

UN Number : 3077

Description of the goods: Environmentally hazardous substance, solid, n.o.s.
(TESTOSTERONE)

Packaging group : III

Hazard identification No : 90

Dangerous goods labels : 9

ADNR

UN Number : 3077

Description of the goods: Environmentally hazardous substance, solid, n.o.s.
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Testosterone**IATA**

UN Number : 3077
Description of the goods: Environmentally hazardous substance, solid, n.o.s.
(TESTOSTERONE)
Class : 9
Packaging group : III
Dangerous goods labels : 9
Packing instruction (cargo aircraft): 911
Packing instruction (passenger aircraft): 911

IMDG

UN Number : 3077
Description of the goods: Environmentally hazardous substance, solid, n.o.s.
(TESTOSTERONE)
Class : 9
Packaging group : III
IMDG-Labels : 9
Marine pollutant : Yes

Limited quantity regulations applicable in accordance with chapter 3.4 RID/ADR in compliance with threshold value.

Other information : Environmentally hazardous substance Keep separated from foodstuffs

15 Regulatory information.**Labelling according to EC Directives:**

Labelling according to EC Directives
N Dangerous for the environment
T Toxic

Hazardous components which must be listed on the label:
58-22-0 Testosterone

R60 May impair fertility.
R61 May cause harm to the unborn child.
R22 Also harmful if swallowed.
R40 Limited evidence of a carcinogenic effect.
R50 Very toxic to aquatic organisms.
R64 May cause harm to breastfed babies.
S53 Avoid exposure - obtain special instructions before use.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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Testosterone

TRGS 905

Carcinogenic Category 3

associated with reproductive risks category 1

embryotoxic (impairs embryonic development) category 2

National legislation

Water contaminating class (Germany): WGK 3 (highly water endangering)

VwVwS (German Regulation) supplement 3

Major accidents regulations appendix I no.: 9a**Guidelines and information sheets issued by the Chemical Industry Employers' Insurance**

Association: M 053 /BGI 660 ("Protective measures when handling hazardous substances at work"), Employers' Liability Insurance Association leaflet (BGI) 5151, Working safely in the pharmaceutical industry (April 2009)., The recommendations given in the leaflet of the "Berufsgenossenschaft der Chemischen Industrie" (Employers' Liability Insurance Association for the German Chemical Industry) entitled "Fruchtschädigungen -Schutz am Arbeits-platz" (M 039) should be followed.

Other regulations: TRGS 500: Precaution: Least standards

16 Other information**Full text of R-phrases referred to under sections 2 and 3**

R22 Harmful if swallowed.

R40 Limited evidence of a carcinogenic effect.

R50 Very toxic to aquatic organisms.

R60 May impair fertility.

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R64 May cause harm to breastfed babies.

Full text of H-Statements mentioned in chapters 2 and 3

H302 Harmful if swallowed.

H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the unborn child.

H362 May cause harm to breast-fed children.

H400 Very toxic to aquatic life.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.


TESTOSTERONE

CAS: 58-22-0

EC: 200-370-5

LGK: 6.1 AS

WGK: 3

	<p>(E)</p> <p>H302 Nocivo si es ingerido. H351 Sospecha de causar cáncer. H360FD Puede afectar la fertilidad. Puede afectar al feto. H362 Puede causar daño a los niños alimentados con leche materna. H400 Muy tóxico para la vida acuática.</p> <ul style="list-style-type: none">• <p>P273 Evitar su liberación al medio ambiente. P281 Use el equipo de protección personal establecido. P260 No respirar el polvo o la neblina</p> <p>Respuesta:</p> <p>P301 + P310 EN CASO DE INGESTIÓN: Llame inmediatamente a un CENTRO DE TOXICOLOGÍA o a un médico. P308 + P313 En caso de exposición o posible exposición: Acuda a centro de atención médico. P330 Enjuagar la boca.</p>	<p>(GB)</p> <p>H302 Harmful if swallowed. H351 Suspected of causing cancer. H360FD May damage fertility. May damage the unborn child. H362 May cause harm to breast-fed children. H400 Very toxic to aquatic life.</p> <ul style="list-style-type: none">• <p>P273 Avoid release to the environment. P281 Use personal protective equipment as required. P260 Do not breathe dust or mist.</p> <p>Response:</p> <p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P308 + P313 IF exposed or concerned: Get medical advice/attention. P330 Rinse mouth.</p>
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